

4400> 9379															
Leu	Pro	Phe	Arg	Ile	Phe	Pro	Pro	Ala	Leu	Thr	Pro	Arg	Trp	Ile	Ser
1				5					10					15	
Arg	Leu	Arg	Gly	Cys	Ala	Pro	Arg	Leu	Lys	Val	Asn	His	Met	Leu	Asp
			20					25					30		
Lys	His	Leu	His	Pro	Arg	Leu	Lys	Pro	Gly	Leu	Asn	Gln	Leu	Ala	Ala
		35					40					45			
Ala	Leu	Asp	Lys	Pro	Phe	Ile	Thr	Pro	Asp	Gly	Leu	Thr	Leu	Ala	Gly
	50					55					60				
Phe	Ala	Ile	Gly	Val	Leu	Ala	Leu	Pro	Phe	Leu	Ala	Leu	Gly	Trp	Tyr
65				70						75				80	
Pro	Gly	Ala	Leu	Ile	Ala	Ile	Val	Leu	Asn	Arg	Leu	Leu	Asp	Gly	Leu
				85					90					95	
Asp	Gly	Ala	Leu	Ala	Arg	Arg	Arg	Gly	Leu	Thr	Asp	Ala	Gly	Gly	Phe
			100					105					110		
Leu	Asp	Ile	Ala	Leu	Asp	Phe	Leu	Phe	Tyr	Ala	Leu	Val	Pro	Phe	Gly
		115					120					125			
Phe	Ala	Leu	Ala	Ala	Pro	Ala	Asp	Asn	Ala	Ile	Ala	Ala	Ala	Trp	Leu
	130					135					140				
Leu	Phe	Ala	Phe	Met	Gly	Thr	Gly	Ser	Ser	Phe	Leu	Ala	Phe	Ala	Ala
145				150						155				160	
Leu	Ala	Gly	Lys	His	Asp	Ile	Asp	Asn	Pro	Gly	Tyr	Ala	His	Lys	Ser
				165				170						175	
Leu	Tyr	Tyr	Ile	Gly	Gly	Leu	Thr	Glu	Gly	Thr	Glu	Thr	Ile	Ala	Leu
			180					185					190		
Phe	Val	Leu	Cys	Ser	Leu	Phe	Pro	Ala	His	Phe	Ala	Leu	Phe	Ala	Trp
		195					200					205			
Val	Phe	Gly	Ala	Leu	Cys	Trp	Leu	Thr	Thr	Thr	Thr	Arg	Ile	Trp	Ser

210 215 220
 Gly Tyr Ile Thr Leu Lys Ser Leu Pro Arg
 225 230 235

<210> 9380

<211> 500

<212> PRT

<213> Enterobacter cloacae

<400> 9380

Gly Glu Asn Ser Met Thr Leu Trp Ile Asn Gly Asp Trp Val Thr Gly
 1 5 10 15
 Glu Gly Asp Ala Arg Thr Lys Thr Asn Pro Val Gly Gln Glu Val Leu
 20 25 30
 Trp Ser Gly Asn Asp Ala Ser Ala Gly Gln Val Glu Gln Ala Cys Gln
 35 40 45
 Ala Ala Arg Arg Ala Phe Pro Ala Trp Ala Lys Arg Pro Phe Ser Glu
 50 55 60
 Arg Gln Ala Leu Val Glu Lys Phe Ala Ala Leu Leu Glu Ala Asn Lys
 65 70 75 80
 Ala Glu Leu Thr Arg Ile Ile Ala Cys Glu Thr Ser Lys Pro Arg Trp
 85 90 95
 Glu Ala Thr Thr Glu Val Thr Ala Met Ile Asn Lys Ile Ala Ile Ser
 100 105 110
 Val Lys Ala Tyr His Thr Arg Thr Gly Glu Gln His Thr Glu Met Pro
 115 120 125
 Asp Gly Ala Ala Thr Leu Arg His Arg Pro His Gly Val Leu Ala Val
 130 135 140
 Phe Gly Pro Tyr Asn Phe Pro Gly His Leu Pro Asn Gly His Ile Val
 145 150 155 160
 Pro Ala Leu Leu Ala Gly Asn Thr Val Ile Phe Lys Pro Ser Glu Leu
 165 170 175
 Thr Pro Leu Thr Gly Glu Ala Val Val Lys Leu Trp Glu Gln Ala Gly
 180 185 190
 Leu Pro Pro Gly Val Leu Asn Leu Val Gln Gly Gly Arg Glu Thr Gly
 195 200 205
 Gln Ala Leu Ser Ala Leu Ser Asp Ile Asp Gly Leu Leu Phe Thr Gly
 210 215 220
 Ser Ala Gly Thr Gly Tyr Gln Leu His Arg Gln Leu Ala Gly Gln Pro
 225 230 235 240
 Glu Lys Ile Leu Ala Leu Glu Met Gly Gly Asn Asn Pro Leu Ile Val
 245 250 255
 Glu Asp Pro Glu Asp Ile Asp Ala Ala Val His Leu Thr Ile Gln Ser
 260 265 270
 Ala Phe Ile Thr Ala Gly Gln Arg Cys Thr Cys Ala Arg Arg Leu Leu
 275 280 285
 Val Lys Arg Gly Ala Gln Gly Asp Ala Phe Leu Lys Arg Leu Val Glu
 290 295 300
 Val Ser Ala Arg Leu Val Pro Ala Lys Trp Asp Ala Glu Pro Gln Pro
 305 310 315 320
 Phe Ile Gly Gly Leu Ile Ser Gly Gln Ala Ala Leu Asn Val Leu Lys
 325 330 335
 Ala Trp Gln Glu His Val Ala Arg Gly Ala Lys Thr Leu Leu Glu Pro
 340 345 350
 Lys Leu Val Gln Pro Gly Thr Ser Leu Leu Thr Pro Gly Ile Ile Asp
 355 360 365
 Met Ser Ala Thr Ser Asn Val Pro Asp Glu Glu Val Phe Gly Pro Leu
 370 375 380
 Leu Cys Val Trp Arg Tyr Asp Asp Phe Glu Ser Ala Ile Glu Met Ala
 385 390 395 400
 Asn Asn Thr Arg Tyr Gly Leu Ser Ser Gly Leu Ile Ser Pro His Arg

5003

405 410 415
 Glu Lys Phe Asp Gln Leu Leu Leu Glu Ala Arg Ala Gly Ile Val Asn
 420 425 430
 Trp Asn Lys Pro Leu Thr Gly Ala Ala Ser Thr Ala Pro Phe Gly Gly
 435 440 445
 Val Gly Ala Ser Gly Asn His Arg Ala Ser Ala Trp Tyr Ala Ala Asp
 450 455 460
 Tyr Cys Ala Trp Pro Met Ala Ser Leu Glu Thr Pro Ala Leu Thr Leu
 465 470 475 480
 Pro Glu Thr Leu Asn Pro Gly Leu Asp Phe Thr Glu Gly Asp Ala His
 485 490 495
 Glu Ser Ala
 500

<210> 9381
 <211> 120
 <212> PRT
 <213> Enterobacter cloacae

<400> 9381
 Thr Arg Gly Arg Asn Met Asn Lys Asn Val Ala Gly Ile Leu Ser Ala
 1 5 10 15
 Ala Ala Val Leu Thr Met Leu Ala Gly Cys Thr Ala Tyr Asp Arg Thr
 20 25 30
 Lys Asp Gln Phe Thr Gln Pro Val Val Lys Asp Val Lys Lys Gly Met
 35 40 45
 Thr Arg Ser Gln Val Ala Ala Ile Ala Gly Lys Pro Ser Ser Glu Val
 50 55 60
 Thr Met Ile His Ala Arg Gly Thr Cys Gln Thr Tyr Ile Leu Gly Gln
 65 70 75 80
 Arg Asp Gly Lys Ala Glu Thr Tyr Phe Val Ala Leu Asp Asp Thr Gly
 85 90 95
 His Val Ile Asn Ser Gly Tyr Gln Thr Cys Ala Glu Tyr Asp Thr Asp
 100 105 110
 Pro Gln Ala Pro Lys Ala Gln
 115 120

<210> 9382
 <211> 97
 <212> PRT
 <213> Enterobacter cloacae

<400> 9382
 Lys Gly Glu Ile Met Asn Ile Asp Asp Met Ile Ala Gly Met Thr Pro
 1 5 10 15
 Glu Val Tyr Gln Arg Leu Val Thr Ala Val Glu Leu Gly Lys Trp Pro
 20 25 30
 Asp Gly Val Ala Leu Thr Pro Glu Gln Lys Glu Asn Ser Leu Gln Leu
 35 40 45
 Val Met Leu Trp Gln Ala Arg His Asn Thr Asp Ala Gln His Met Thr
 50 55 60
 Ile Asp Thr Asn Gly Gln Met Val Met Lys Ser Lys Arg Glu Leu Lys
 65 70 75 80
 Glu Asp Phe Gly Ile Thr Pro Lys Pro Ile Ala Thr Met Lys Met Gln
 85 90 95

<210> 9383
 <211> 352
 <212> PRT

<213> Enterobacter cloacae

<400> 9383

Gln Glu Thr Ser Met Ser Glu Gln Thr Ile Arg Leu Thr Gln Tyr Ser
 1 5 10 15
 His Gly Ala Gly Cys Gly Cys Lys Ile Ser Pro Lys Val Leu Glu Thr
 20 25 30
 Ile Leu His Ser Glu Gln Ala Lys Phe Val Asp Pro Asn Leu Leu Val
 35 40 45
 Gly Asn Glu Thr Arg Asp Asp Ala Ala Val Tyr Asp Leu Gly Asn Gly
 50 55 60
 Thr Ser Ile Ile Ser Thr Thr Asp Phe Phe Met Pro Ile Val Asp Asn
 65 70 75 80
 Pro Phe Asp Phe Gly Arg Ile Ala Ala Thr Asn Ala Ile Ser Asp Ile
 85 90 95
 Phe Ala Met Gly Gly Lys Pro Ile Met Ala Ile Ala Ile Leu Gly Trp
 100 105 110
 Pro Ile Asn Asn Leu Pro Pro Glu Ile Ala Arg Asp Val Ile Glu Gly
 115 120 125
 Gly Arg Phe Ala Cys Gln Gln Ala Gly Ile Ala Leu Ala Gly Gly His
 130 135 140
 Ser Ile Asp Ala Pro Glu Pro Ile Phe Gly Leu Ala Val Thr Gly Val
 145 150 155 160
 Val Pro Thr Glu Arg Val Lys Arg Asn Ser Thr Ala Gln Pro Gly Cys
 165 170 175
 Lys Leu Phe Leu Thr Lys Pro Leu Gly Ile Gly Val Leu Thr Thr Ala
 180 185 190
 Glu Lys Lys Ser Leu Leu Lys Pro Glu His Ile Gly Leu Ala Thr Glu
 195 200 205
 Val Met Cys Gln Met Asn Leu Ala Gly Ala Ala Phe Ala Asn Ile Asp
 210 215 220
 Gly Val Lys Ala Met Thr Asp Val Thr Gly Phe Gly Leu Leu Gly His
 225 230 235 240
 Leu Ser Glu Val Cys Gln Gly Ala Gly Val Gln Ala Gln Val Arg Tyr
 245 250 255
 Gln Asp Val Pro Lys Leu Pro Gly Val Glu Glu Tyr Ile Ala Gln Gly
 260 265 270
 Ala Leu Pro Gly Gly Thr Gln Arg Asn Phe Ala Ser Tyr Gly His Leu
 275 280 285
 Met Gly Glu Met Pro Glu Ala Trp Arg Asn Leu Leu Cys Asp Pro Gln
 290 295 300
 Thr Ser Gly Gly Leu Leu Leu Ala Val Thr Pro Glu Ala Glu Ala Asp
 305 310 315 320
 Val Gln Ala Thr Ala Ala Glu Phe Gly Ile Thr Leu Thr Ala Ile Gly
 325 330 335
 Glu Leu Val Thr Ala Arg Gly Gly Arg Pro Met Ile Glu Ile Arg
 340 345 350

<210> 9384

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9384

Arg Asp Thr Leu Lys Ile Pro Ser Gly Ser Thr Val Ile Asp Ile Asn
 1 5 10 15
 Asp Ala Lys Glu Thr Lys Ser Met Asn Arg Tyr Ala Met Ala Ala Leu
 20 25 30
 Cys Leu Met Val Ser Ala Gly Ala Gln Ala Asp Arg Ile Arg Pro Asp
 35 40 45
 Val Glu Val Asn Val Pro Pro Glu Val Phe Ser Ala Gly Gly Gln Arg

50	55	60															
Ala	Gln	Pro	Cys	Asn	Gln	Cys	Cys	Ile	Tyr	Gln	Asp	Gln	Asn	Tyr	Ser		
65					70					75					80		
Glu	Gly	Ala	Val	Val	Arg	Ala	Asp	Gly	Val	Leu	Leu	Gln	Cys	Gln	Arg		
				85					90					95			
Asp	Glu	Arg	Thr	Leu	Ser	Thr	Asn	Pro	Leu	Val	Trp	Arg	Arg	Val	Lys		
			100					105						110			
Glu																	

<210> 9385

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 9385

Arg	Gly	Ala	Leu	Cys	Pro	Cys	Ala	Asp	Arg	Gln	Arg	Gly	Arg	Gly	Gln		
1				5					10					15			
Asn	Trp	Leu	Arg	Ser	Phe	Cys	Ala	Gly	Leu	Arg	Thr	Gly	Glu	Val	Arg		
			20					25					30				
Gly	Val	Ile	Met	Met	Val	Ile	Arg	Pro	Val	Ala	His	Gly	Asp	Leu	Ala		
		35					40					45					
Gly	Leu	Met	Gln	Leu	Ala	Gly	Lys	Thr	Gly	Gly	Gly	Leu	Thr	Ser	Leu		
		50				55					60						
Pro	Ala	Asp	Glu	Lys	Thr	Leu	Ser	Ala	Arg	Ile	Glu	Arg	Ala	Leu	Gln		
65					70				75					80			
Thr	Trp	Gln	Gly	Thr	Leu	Pro	Lys	Ser	Glu	Gln	Gly	Tyr	Val	Phe	Val		
				85					90					95			
Leu	Glu	Asp	Thr	Asp	Thr	Gly	Thr	Val	Ala	Gly	Ile	Cys	Ala	Ile	Glu		
			100					105					110				
Val	Ala	Val	Gly	Leu	Asn	Asp	Pro	Trp	Tyr	Asn	Tyr	Arg	Val	Gly	Thr		
		115					120					125					
Met	Val	His	Ala	Ser	Lys	Glu	Leu	Asn	Val	Tyr	Asn	Ala	Leu	Pro	Thr		
		130				135					140						
Leu	Phe	Leu	Cys	Asn	Asp	His	Thr	Gly	Ala	Ser	Glu	Leu	Cys	Thr	Leu		
145					150					155				160			
Phe	Leu	Asp	Pro	Asp	Trp	Arg	Lys	Glu	Gly	Asn	Gly	Tyr	Leu	Leu	Ser		
				165					170					175			
Lys	Ser	Arg	Phe	Met	Phe	Met	Ala	Ala	Phe	Arg	Asp	Arg	Phe	Asn	Glu		
			180					185					190				
Lys	Val	Val	Ala	Glu	Met	Arg	Gly	Val	Ile	Asp	Glu	Thr	Gly	Tyr	Ser		
		195					200					205					
Pro	Phe	Trp	Glu	Ser	Leu	Gly	Glu	Arg	Phe	Phe	Ser	Met	Glu	Phe	Ser		
		210				215					220						
Arg	Ala	Asp	Tyr	Leu	Cys	Gly	Thr	Gly	Gln	Lys	Ala	Phe	Ile	Ala	Glu		
225					230					235				240			
Leu	Met	Pro	Lys	His	Pro	Ile	Tyr	Thr	His	Phe	Leu	Thr	Pro	Glu	Ala		
			245						250					255			
Gln	Ala	Val	Ile	Gly	Glu	Val	His	Pro	Gln	Thr	Ala	Pro	Ala	Arg	Ala		
			260					265					270				
Val	Leu	Glu	Lys	Glu	Gly	Phe	Arg	Tyr	Arg	Asn	Tyr	Val	Asp	Ile	Phe		
		275					280					285					
Asp	Gly	Gly	Pro	Thr	Leu	Glu	Cys	Asp	Ile	Asp	Arg	Val	Arg	Ala	Ile		
		290				295					300						
Arg	Lys	Ser	Arg	Leu	Val	Glu	Val	Ser	Glu	Cys	Gln	Pro	Ala	Pro	Gly		
305					310					315				320			
Glu	Trp	Pro	Ala	Cys	Leu	Val	Ser	Asn	Glu	Asn	Tyr	Thr	Asn	Phe	Arg		
				325					330					335			
Ala	Met	Leu	Val	Arg	Thr	Asn	Pro	Ser	Cys	Glu	Arg	Leu	Val	Leu	Thr		
			340					345					350				
Ala	Ala	Gln	Leu	Asp	Ala	Leu	Lys	Cys	Asn	Ala	Gly	Asp	Thr	Val	Arg		

400>	9386															
Ile	Arg	Gly	Trp	Ile	Leu	Leu	Arg	Val	Thr	Pro	Met	Lys	Ala	Arg	Glu	
1				5					10					15		
Val	Asn	Phe	Asp	Gly	Leu	Val	Gly	Leu	Thr	His	His	Tyr	Ala	Gly	Leu	
			20					25					30			
Ser	Phe	Gly	Asn	Glu	Ala	Ser	Thr	Lys	His	Arg	Phe	Gln	Val	Ser	Asn	
		35					40					45				
Pro	Lys	Leu	Ala	Ala	Lys	Gln	Gly	Leu	Leu	Lys	Met	Lys	Ala	Leu	Ser	
	50					55					60					
Asp	Ala	Gly	Phe	Pro	Gln	Ala	Val	Ile	Pro	Pro	Gln	Glu	Arg	Pro	Asn	
65					70				75					80		
Val	Ala	Val	Leu	Arg	Gln	Leu	Gly	Phe	Ser	Gly	Thr	Asp	Glu	Gln	Val	
			85					90						95		
Val	Glu	Lys	Ala	Gly	Thr	Gln	Thr	Pro	His	Leu	Leu	Ser	Ala	Ala	Ser	
			100					105					110			
Ser	Ala	Ser	Ser	Met	Trp	Val	Ala	Asn	Ala	Ala	Thr	Val	Ala	Pro	Ser	
		115					120					125				
Ala	Asp	Thr	Leu	Asp	Gly	Lys	Val	His	Leu	Thr	Val	Ala	Asn	Leu	Asn	
	130					135					140					
Asn	Lys	Phe	His	Arg	Ala	Ser	Glu	Ala	Glu	Thr	Thr	Gly	Arg	Val	Leu	
145					150					155				160		
Arg	Ala	Ile	Phe	Asn	His	Asp	Ala	His	Phe	Glu	Val	His	Ser	Ala	Leu	
			165						170					175		
Pro	Gln	Val	Ala	Met	Phe	Gly	Asp	Glu	Gly	Ala	Ala	Asn	His	Asn	Arg	
			180					185					190			
Leu	Gly	Gly	Asp	Tyr	Gly	Glu	Pro	Gly	Leu	Gln	Leu	Phe	Ile	Tyr	Gly	
		195					200					205				
Arg	Glu	Glu	Gly	Gly	His	Ala	Ala	Pro	Val	Arg	Tyr	Pro	Ala	Arg	Gln	
	210					215						220				
Thr	Leu	Ala	Ala	Ser	Gln	Ala	Val	Ala	Arg	Leu	Asn	Gln	Val	Asn	Pro	
225					230				235					240		
Ser	Gln	Val	Ile	Phe	Ala	Gln	Gln	Asn	Pro	Gln	Val	Ile	Asp	Gln	Gly	
			245						250					255		
Val	Phe	His	Asn	Asp	Val	Ile	Ala	Val	Ser	Asn	Arg	Gln	Val	Leu	Phe	
			260					265					270			
Cys	His	Glu	Gln	Ala	Phe	Ala	His	Gln	Glu	Lys	Leu	Leu	Ala	Thr	Leu	
		275					280					285				
Arg	Glu	Arg	Val	Pro	Gly	Phe	Met	Pro	Ile	Gln	Val	Pro	Thr	Gln	Ala	
	290					295					300					
Val	Ser	Val	Gln	Asp	Ala	Val	Glu	Thr	Tyr	Leu	Phe	Asn	Ser	Gln	Leu	
305					310					315				320		
Leu	Ser	Arg	Asp	Asp	Gly	Ser	Met	Met	Leu	Val	Leu	Pro	Gln	Glu	Ser	
			325						3							

				405						410					415
Leu	Val	Gln	Ala	Asp	Leu	Val	Asp	Pro	Gln	Leu	Leu	Arg	Glu	Gly	Arg
			420					425					430		
Glu	Ala	Leu	Asp	Ala	Leu	Ser	Thr	Ile	Leu	Gln	Leu	Gly	Ser	Val	Tyr
		435					440					445			
Pro	Phe	Gln	Arg												
	450														

<210> 9387

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 9387

Gly	Asp	Asp	Met	Glu	Asn	Leu	Leu	Ala	Leu	Thr	Leu	Ala	Glu	Glu	Thr
1				5					10					15	
Pro	Glu	Arg	Gln	Glu	Gly	Ala	Gly	Pro	Ser	Phe	His	Trp	Arg	Trp	Leu
			20					25					30		
Gly	Pro	Gly	Val	Leu	Glu	Leu	Thr	Pro	Thr	Gly	Lys	Tyr	Asn	Leu	Ser
		35					40					45			
Leu	Leu	Leu	Ser	Thr	Gly	Ile	His	Gly	Asn	Glu	Thr	Ala	Pro	Val	Glu
	50					55					60				
Ile	Val	Glu	Leu	Leu	Leu	Arg	Ala	Leu	Tyr	Arg	Ala	Glu	Phe	Thr	Leu
65					70					75					80
His	Cys	Arg	Leu	Leu	Val	Val	Leu	Gly	Asn	Pro	Pro	Ala	Leu	Ala	Gln
			85						90					95	
Asn	Lys	Arg	Tyr	Leu	Val	Ser	Asp	Ile	Asn	Arg	Met	Phe	Gly	Gly	Arg
			100					105					110		
Trp	Ala	Gln	Phe	Pro	Gln	Ser	Asp	Glu	Thr	Thr	Arg	Ala	Gln	Trp	Leu
		115					120					125			
Glu	Lys	Val	Val	Thr	Ala	Phe	Phe	Ala	Gly	Ala	Gly	Glu	Thr	Arg	Trp
		130				135					140				
His	Leu	Asp	Leu	His	Thr	Ala	Ile	Arg	Ala	Ser	Tyr	His	Val	Arg	Phe
145					150					155					160
Gly	Val	Leu	Pro	Gln	Arg	His	Gln	Pro	Trp	Asp	Glu	Ala	Phe	Leu	Thr
			165						170					175	
Trp	Leu	Gly	Asp	Ala	Gly	Leu	Glu	Ala	Leu	Val	Phe	His	Gln	Thr	Pro
			180				185						190		
Gly	Gly	Thr	Phe	Thr	His	Phe	Thr	Cys	Glu	Asn	Val	Gly	Ala	Leu	Ser
		195					200					205			
Cys	Thr	Leu	Glu	Leu	Gly	Lys	Ala	Leu	Pro	Phe	Gly	Gln	Asn	Asp	Leu
		210				215					220				
Thr	Arg	Phe	Thr	Pro	Thr	His	Gln	Ala	Leu	Arg	Ala	Leu	Leu	Ala	Gly
225					230					235					240
Val	Ala	Pro	Glu	Pro	Thr	Arg	Glu	Pro	Val	Val	Arg	Tyr	Arg	Val	Val
			245						250					255	
Gln	Gln	Ile	Thr	Arg	Gln	Ser	Glu	Ala	Phe	Gln	Leu	His	Met	Ala	Pro
			260					265					270		
His	Thr	Leu	Asn	Phe	Thr	Pro	Phe	Arg	Gln	Gly	Val	Leu	Leu	Ala	Glu
		275					280					285			
Asp	Gly	Glu	Thr	Arg	Tyr	Ala	Val	Gln	Lys	Ser	Thr	Glu	Tyr	Val	Leu
		290				295					300				
Phe	Pro	Asn	Pro	Ser	Val	Ala	Phe	Gly	Leu	Arg	Ala	Gly	Leu	Met	Leu
305					310					315					320
Glu	Lys	Met	Pro												

325

<210> 9388

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 9388

```

Asp Arg Arg Ala Pro Val Tyr Lys Ser Glu Asn Ala Val Asp Arg Thr
1      5      10      15
Gly Gly Phe Ser Phe Ile Pro Cys Leu Arg Ser Gly Leu Thr Ala Ala
20      25      30
Asp Asn Thr Ser Val Lys Met Pro Trp Arg Thr Val Arg Pro Ser Gly
35      40      45
Val Val Met Glu Phe Phe Asp Ile Arg Lys Met Pro Val Ser Leu Trp
50      55      60
Arg Asn Gly Ala Gly Glu Thr Arg Glu Ile Cys Cys Phe Pro Pro Ala
65      70      75      80
Thr Arg Asp Phe Phe Trp Arg Ala Ser Ile Ala Ser Ile Ala Ser Asn
85      90      95
Gly Glu Phe Ser Ala Phe Pro Gly Val Asp Arg Val Ile Thr Leu Leu
100     105     110
Glu Gly Gly Glu Val Thr Leu Asp Ala Gly Arg Ala Phe Cys His Thr
115     120     125
Leu Lys His His Gln Pro Tyr Arg Phe Ala Gly Asp Leu Ala Val Lys
130     135     140
Ala Val Leu Thr Glu Gly Gln Met Ser Met Asp Phe Asn Ile Met Thr
145     150     155     160
Arg Arg Asp Cys Cys Gln Ala Lys Val Arg Val Ala Thr Arg Thr Phe
165     170     175
Thr Thr Phe Ala Ser Arg Gly Gly Val Val Phe Val Leu Ser Gly Ala
180     185     190
Trp Gln Leu Gly Asp Lys Leu Leu Thr Ala Asp Gln Gly Ala Ser Trp
195     200     205
Glu Ala Gly Ser His Thr Leu Arg Leu Leu Glu Thr Lys Gly Ser Leu
210     215     220
Leu Phe Ser Glu Ile Thr Trp Leu Pro Gly His
225     230     235

```

<210> 9389

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 9389

```

Gly Tyr Phe Pro Met Ser Lys Val Ile Ala Ser Leu Glu Lys Val Leu
1      5      10      15
Leu Pro Phe Ala Val Lys Ile Gly Lys Gln Pro His Val Asn Ala Ile
20      25      30
Lys Asn Gly Phe Ile Lys Leu Met Pro Leu Thr Leu Ala Gly Ala Met
35      40      45
Phe Val Leu Ile Asn Asn Val Phe Leu Ser Phe Gly Glu Gly Ser Phe
50      55      60
Phe Tyr Ser Leu Gly Ile Arg Leu Asp Ala Ser Thr Ile Glu Thr Leu
65      70      75      80
Asn Gly Leu Lys Ala Ile Gly Gly Asn Val Tyr Asn Gly Thr Leu Gly
85      90      95
Ile Met Ser Leu Met Ala Pro Phe Phe Ile Gly Met Ala Leu Ala Glu
100     105     110
Glu Arg Lys Val Asp Pro Leu Ala Ala Gly Leu Leu Ser Ile Ala Ala
115     120     125
Phe Met Thr Val Thr Pro Tyr Ser Val Gly Asp Ala Tyr Ala Val Gly
130     135     140
Ala Asn Trp Leu Gly Gly Ala Asn Ile Ile Ser Gly Ile Ile Ile Gly
145     150     155     160
Leu Val Val Ala Glu Met Phe Thr Phe Ile Ile Arg Arg Asn Trp Val
165     170     175

```

Ile Arg Leu Pro Asp Ser Val Pro Ala Ser Val Ser Arg Ser Phe Ser
 180 185 190
 Ala Leu Ile Pro Gly Phe Ile Ile Leu Ser Ile Met Gly Ile Ile Ala
 195 200 205
 Trp Ala Leu Ser His Trp Gly Thr Asn Phe His Gln Ile Ile Met Asp
 210 215 220
 Ser Ile Ser Thr Pro Leu Ala Ser Met Gly Asn Val Val Gly Trp Ala
 225 230 235 240
 Tyr Val Ile Phe Thr Ser Leu Leu Trp Phe Phe Gly Val His Gly Ser
 245 250 255
 Leu Ala Leu Ala Ala Leu Asp Ser Gly Ile Met Thr Pro Trp Ala Leu
 260 265 270
 Glu Asn Val Ala Leu Tyr Gln Gln Tyr Gly Ser Val Asp Ala Ala Leu
 275 280 285
 Ala Ala Gly Lys Thr Phe His Val Trp Ala Lys Pro Met Leu Asp Ser
 290 295 300
 Tyr Ile Phe Leu Gly Gly Thr Gly Ala Thr Leu Gly Leu Ile Ile Ala
 305 310 315 320
 Val Phe Ile Val Ser Arg Arg Ala Asp His Arg Gln Val Ala Lys Leu
 325 330 335
 Ala Leu Pro Ser Gly Ile Phe Gln Ile Asn Glu Pro Ile Leu Phe Gly
 340 345 350
 Leu Pro Ile Ile Met Asn Pro Val Met Phe Ile Pro Phe Ile Leu Val
 355 360 365
 Gln Pro Leu Leu Ala Ala Ile Thr Leu Thr Ala Tyr Tyr Leu Gly Ile
 370 375 380
 Ile Pro Pro Val Thr Asn Ile Ala Pro Trp Thr Met Pro Ala Gly Leu
 385 390 395 400
 Gly Ala Phe Phe Asn Thr Asn Gly Ser Val Ala Ala Phe Leu Leu Ala
 405 410 415
 Ile Phe Asn Leu Gly Ile Ala Thr Leu Leu Tyr Met Pro Phe Val Ala
 420 425 430
 Ile Ala Asn Lys Ala Ala Thr Val Ile Asp Glu Glu Ser Glu Glu
 435 440 445
 Asp Ile Ala Leu Ala Leu Lys Phe
 450 455

<210> 9390

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 9390

Lys Met Leu Asp Leu Glu Ser Ile Val Ala Glu Glu Thr Ala Glu Asn
 1 5 10 15
 Asp Leu Glu Glu Val Val Met Gly Leu Ile Ile Asn Ser Gly Gln Ala
 20 25 30
 Arg Ser Leu Ala Tyr Ala Ala Leu Lys Gln Ala Lys Gln Gly Asp Phe
 35 40 45
 Val Ala Ala Lys Thr Met Met Glu Gln Ser Arg Thr Ala Leu Asn Glu
 50 55 60
 Ala His Leu Val Gln Thr Lys Leu Ile Glu Ser Asp Gln Gly Glu Gly
 65 70 75 80
 Lys Met Lys Val Ser Leu Val Leu Val His Ala Gln Asp His Leu Met
 85 90 95
 Thr Ser Met Leu Ala Arg Glu Leu Val Ala Glu Leu Ile Glu Leu His
 100 105 110
 Glu Lys Met Gln
 115

<210> 9391

<211> 278
 <212> PRT
 <213> Enterobacter cloacae

<400> 9391

```

Gln Glu Val Ser Thr Met Glu Ile Lys Thr Ala His Glu Gln Gln Leu
1      5      10      15
Phe Asn Gly Lys Asn Phe His Val Val Ile Tyr Asn Lys Thr Glu Ser
20      25      30
Ala Ser Gly Leu His Gln His Asp Tyr Tyr Glu Phe Thr Ile Val Leu
35      40      45
Thr Gly Arg Tyr Tyr Gln Glu Ile Asn Gly Lys Arg Val Leu Leu Glu
50      55      60
Arg Gly Asp Phe Val Phe Leu Pro Met Gly Ser Tyr His Gln Ser Phe
65      70      75      80
Tyr Glu Phe Gly Ala Thr Arg Ile Leu Asn Val Gly Val Ser Arg Arg
85      90      95
Phe Phe Glu Lys His Tyr Leu Pro Leu Val Pro Phe Cys Phe Val Ala
100      105      110
Ser Gln Val Tyr Arg Val Lys Asn Glu Phe Met Thr Trp Ile Glu Thr
115      120      125
Val Ile Ala Ser Leu Asn Phe Arg Asp Asn Glu Phe Asp Glu Phe Ile
130      135      140
Glu Thr Val Thr Phe Tyr Val Met Asn Arg Leu Arg His His Arg Glu
145      150      155      160
Glu Gln Gln Val Val Asp Asp Ile Pro Gln Trp Leu Arg Ser Thr Val
165      170      175
Glu Leu Met His Asp Lys Gly Gln Phe Ser Asp Asn Ala Leu Glu Asn
180      185      190
Met Val Ala Leu Ser Gly Lys Ser Gln Glu Tyr Leu Thr Arg Ala Thr
195      200      205
Gln Arg Tyr Tyr Arg Lys Thr Pro Val Gln Ile Ile Asn Glu Ile Arg
210      215      220
Ile Asn Phe Ala Lys Lys Gln Leu Glu Ile Thr Asn Tyr Ser Val Thr
225      230      235      240
Asp Ile Ala Tyr Glu Ser Gly Tyr Ser Ser Pro Ser Leu Phe Ile Lys
245      250      255
Thr Phe Lys Lys Leu Thr Ser Phe Thr Pro Asn Ser Tyr Arg Lys Asn
260      265      270
Leu Thr Val Ile Asn
275

```

<210> 9392
 <211> 262
 <212> PRT
 <213> Enterobacter cloacae

<400> 9392

```

Glu Thr Glu Thr His Thr Pro Leu Arg Gly Gly Ala Met Glu Asn Leu
1      5      10      15
Leu Ile Val Asn Ala Asp Asp Phe Gly Leu Ser Lys Gly Gln Asn Tyr
20      25      30
Gly Ile Ile Glu Ala Cys Arg Arg Gly Val Val Thr Ser Thr Thr Ala
35      40      45
Leu Ile Asn Gly Glu Ala Val Glu His Ala Ala Gln Leu Ser Arg Glu
50      55      60
Leu Pro Glu Leu Gly Val Gly Met His Phe Val Leu Thr Leu Gly Leu
65      70      75      80
Pro Leu Ser Pro Met Pro Gly Leu Thr Arg Glu Gly Lys Leu Gly Lys
85      90      95
Trp Ile Trp Glu Met Ala Glu Gln Asp Ala Leu Pro Leu Asp Glu Ile

```



```

      100              105              110
Ala Arg Glu Leu Glu Cys Gln Phe Asn Arg Phe Val Asp Val Phe Gly
      115              120              125
Arg Glu Pro Thr His Ile Asp Ser His His His Val His Met Ile Pro
      130              135              140
Ala Ile Phe Pro Leu Val Ala Glu Phe Ala Gln Arg Lys Gly Val Ala
145      150      155      160
Met Arg Val Asp Arg Glu Val Arg Gly Leu Pro Asp Val Ala Val Thr
      165      170      175
Ser Thr Glu Gly Phe Ser Ser Ala Phe Tyr Gly Asp Glu Ile Asp Glu
      180      185      190
Ala Leu Phe Leu Lys Val Leu Asp Asp Ser Ala Ala Lys Gly Glu Arg
      195      200      205
Ser Leu Glu Val Met Ala His Pro Ala Phe Val Asp Glu Ile Val Arg
      210      215      220
Lys Ser Ala Tyr Cys Trp Pro Arg Leu Ala Glu Leu Asp Val Leu Thr
225      230      235      240
Ser Ala Ser Leu Lys Tyr Ala Ile Ala Glu Arg Gly Tyr Arg Leu Gly
      245      250      255
Thr Phe Arg Asp Leu
      260

```

```

<210> 9393
<211> 89
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 9393
Glu Phe Ala Leu Val Asn Pro Ser Leu Met Lys Pro Leu Arg Gln Gln
1      5      10      15
Asn Arg Gln Val Ile Ser Tyr Val Pro Arg Val Glu Pro Ala Pro Pro
      20      25      30
Asp His Ala Leu Lys Val Asp Gly Phe Arg Asp Val Trp Met Leu Arg
      35      40      45
Gly Lys Tyr Val Ala Phe Val Leu Ile Gly Glu His Phe Arg Arg Ser
      50      55      60
Pro Ala Phe Thr Val Pro Glu Ser Ala Gln Arg Trp Ala Met Gln Thr
65      70      75      80
Arg Gln Asp Glu Glu Val Glu Glu
      85

```

```

<210> 9394
<211> 98
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 9394
Ile Met Ser Ser Gly Asp Ile Thr Arg Tyr Val Val Thr Val Asn Ile
1      5      10      15
His Glu Ala Ser Leu Thr Glu Leu Asn Glu Leu Asn Asn Ala Phe Thr
      20      25      30
Arg Ala Asn Phe Leu Leu Thr Leu Thr Asp Asp Glu Gly Asn Ile His
      35      40      45
Asp Leu Gly Ser Leu Ala Phe Gly Leu Ile Ser Pro Leu Ser Gln Glu
      50      55      60
Glu Val Lys Ala Leu Ala Ser Ser Leu Val Glu Ser Val Thr Asp Lys
65      70      75      80
Ala Thr Glu Ile Asp Val Asp Ser Trp Glu Asn Trp His Lys Lys Glu
      85      90      95
Gln

```

<210> 9395
 <211> 296
 <212> PRT
 <213> Enterobacter cloacae

<400> 9395

```

Ser Gly Arg Gln His Gly Arg Asp Ile Met Trp Gln Ala Ile Ser His
1      5      10      15
Leu Leu Ser Glu Gln Leu Gly Glu Gly Ile Glu Leu Arg Asn Glu
20      25      30
Leu Pro Gly Gly Glu Ile His Ala Ala Trp His Leu Arg Tyr Ala Gly
35      40      45
Arg Asp Leu Phe Val Lys Cys Asp Glu Arg Glu Leu Pro Ile Phe
50      55      60
Thr Ala Glu Ala Asp Gln Leu Glu Leu Leu Ser Arg Ser Lys Thr Val
65      70      75      80
Thr Val Pro Gln Val Leu Ala Val Gly Ser Asp Arg Asp Tyr Ser Phe
85      90      95
Leu Val Met Asn Tyr Leu Pro Ala Arg Pro Leu Asp Ala His Asn Ala
100     105     110
Phe Ile Leu Gly Gln Gln Thr Ala Arg Leu His Gln Trp Ser Asp Gln
115     120     125
Pro Gln Phe Gly Leu Asp Phe Asp Asn Asp Leu Ser Thr Thr Pro Gln
130     135     140
Pro Asn Ala Trp Gln Arg Arg Trp Ser Thr Phe Phe Ala Glu Gln Arg
145     150     155     160
Ile Gly Trp Gln Leu Glu Leu Ala Ala Glu Lys Gly Leu Ala Phe Gly
165     170     175
Asn Ile Asp Ala Ile Val Glu His Ile Gln Gln Arg Leu Ala Ser His
180     185     190
Gln Pro Gln Ala Ser Leu Leu His Gly Asp Leu Trp Ser Asn Asn Cys
195     200     205
Ala Leu Gly Pro Asp Gly Pro Tyr Ile Tyr Asp Pro Ala Cys Tyr Trp
210     215     220
Gly Asp Arg Glu Cys Asp Leu Ala Met Leu Pro Leu His Pro Glu Gln
225     230     235     240
Pro Pro Gln Ile Tyr Asp Gly Tyr Gln Ser Val Ser Pro Leu Pro Ala
245     250     255
Gly Phe Leu Asp Arg Gln Pro Val Tyr Gln Leu Tyr Thr Leu Leu Asn
260     265     270
Arg Ala Ile Leu Phe Gly Gly Ser His Leu Val Asn Ala Gln Arg Ala
275     280     285
Leu Asp Arg Ile Leu Ala Ala
290     295

```

<210> 9396
 <211> 205
 <212> PRT
 <213> Enterobacter cloacae

<400> 9396

```

Ile Asp Ser Leu Pro Gly Phe Ile Met Thr Ala Glu Gly His Leu Leu
1      5      10      15
Phe Ser Leu Ala Cys Ala Val Phe Ala Lys Asn Ala Glu Leu Thr Pro
20      25      30
Val Leu Ala Gln Gly Asp Trp Trp His Ile Val Pro Ser Ala Val Leu
35      40      45
Thr Cys Leu Leu Pro Asp Ile Asp His Pro Lys Ser Phe Leu Gly Gln
50      55      60
Arg Leu Lys Trp Ile Ser Lys Pro Ile Ala Arg Ala Phe Gly His Arg

```

65					70					75					80
Gly	Phe	Thr	His	Ser	Leu	Leu	Ala	Val	Phe	Gly	Leu	Leu	Thr	Leu	Phe
				85					90					95	
Tyr	Leu	Lys	Val	Pro	Glu	Ser	Trp	Ile	Val	Pro	Ala	Asp	Ala	Ile	Gln
			100					105					110		
Gly	Met	Val	Leu	Gly	Tyr	Leu	Ser	His	Ile	Leu	Ala	Asp	Met	Leu	Thr
		115					120					125			
Pro	Ala	Gly	Val	Pro	Leu	Leu	Trp	Pro	Cys	Arg	Trp	Arg	Phe	Arg	Leu
		130					135					140			
Pro	Ile	Leu	Val	Pro	Gln	Lys	Gly	Asn	Gln	Leu	Glu	Arg	Val	Leu	Cys
145					150					155					160
Met	Ala	Leu	Phe	Ala	Tyr	Ala	Val	Trp	Met	Pro	Gln	Thr	Leu	Pro	Glu
			165					170						175	
Asn	Gly	Ala	Val	Arg	Trp	Ser	Ser	Gln	Met	Ile	Asn	Ser	Leu	Gln	Phe
		180						185					190		
Gln	Phe	Asn	Arg	Phe	Ile	Asn	His	Gln	Ile	Glu	His				
		195					200					205			

<210> 9397

<211> 761

<212> PRT

<213> Enterobacter cloacae

<400> 9397

Gly	Phe	Gln	Glu	Arg	Thr	Lys	Glu	Asn	Arg	Ala	Met	Ser	Asn	Asn	Asp
1				5					10					15	
Lys	Pro	His	Gln	Ser	Pro	Ile	His	Gly	Thr	Glu	Glu	Ser	Gln	Pro	Gly
			20					25					30		
Met	Asp	Ser	Leu	Ala	Pro	Ala	Asp	Gly	Ser	His	Lys	Pro	Ser	Pro	Gly
		35					40					45			
Leu	Ser	Ala	Pro	Gly	Glu	Gln	Pro	Thr	Ala	Pro	Gly	Ser	Met	Lys	Ser
	50					55					60				
Pro	Asp	Ala	Asp	Asn	Glu	Lys	Leu	Lys	Ser	Leu	Asp	Pro	His	Arg	Lys
65				70					75					80	
Gly	Gly	Glu	Gly	Tyr	Ala	Leu	Thr	Thr	Asn	Gln	Gly	Val	Arg	Ile	Ala
			85						90					95	
Asp	Asp	Gln	Asn	Ser	Leu	Arg	Ala	Gly	Thr	Arg	Gly	Pro	Thr	Leu	Leu
		100						105					110		
Glu	Asp	Phe	Ile	Leu	Arg	Glu	Lys	Ile	Thr	His	Phe	Asp	His	Glu	Arg
		115					120					125			
Ile	Pro	Glu	Arg	Ile	Val	His	Ala	Arg	Gly	Ser	Ala	Ala	His	Gly	Tyr
	130						135					140			
Phe	Gln	Pro	Tyr	Lys	Ser	Leu	Lys	Glu	Ile	Thr	Lys	Ala	Asp	Phe	Leu
145				150					155						160
Ser	Asp	Pro	Asn	Lys	Ile	Thr	Pro	Val	Phe	Val	Arg	Phe	Ser	Thr	Val
			165					170						175	
Gln	Gly	Gly	Ala	Gly	Ser	Ala	Asp	Thr	Val	Arg	Asp	Ile	Arg	Gly	Leu
		180					185						190		
Ala	Thr	Lys	Phe	Tyr	Thr	Glu	Glu	Gly	Ile	Phe	Asp	Leu	Val	Gly	Asn
		195					200					205			
Asn	Thr	Pro	Val	Phe	Phe	Ile	Gln	Asp	Ala	His	Lys	Phe	Pro	Asp	Phe
	210					215						220			
Val	His	Ala	Val	Lys	Pro	Glu	Pro	His	Trp	Ala	Ile	Pro	Gln	Gly	Gln
225				230						235					240
Ser	Ala	His	Asp	Thr	Phe	Trp	Asp	Tyr	Val	Ser	Leu	Gln	Pro	Glu	Thr
			245					250						255	
Leu	His	Asn	Val	Met	Trp	Ala	Met	Ser	Asp	Arg	Gly	Ile	Pro	Arg	Ser
		260					265					270			
Tyr	Arg	Thr	Met	Glu	Gly	Phe	Gly	Ile	His	Thr	Phe	Arg	Leu	Ile	Asn
		275					280					285			
Ala	Glu	Gly	Lys	Ala	Thr	Phe	Val	Arg	Phe	His	Trp	Lys	Pro	Val	Ala

290	295	300
Gly Lys Ala Ser Leu Val Trp Asp Glu Ala Gln Lys Leu Thr Gly Arg		
305	310	315
Asp Pro Asp Phe His Arg Arg Glu Leu Trp Glu Ser Ile Glu Ala Gly		320
	325	330
Asp Phe Pro Glu Tyr Glu Leu Gly Leu Gln Leu Ile Pro Glu Glu Asp		335
	340	345
Glu Phe Lys Phe Asp Phe Asp Leu Leu Asp Pro Thr Lys Leu Ile Pro		350
	355	360
Glu Glu Leu Val Pro Val Gln Leu Val Gly Lys Met Val Leu Asn Arg		365
	370	375
Asn Pro Asp Asn Phe Phe Ala Glu Asn Glu Gln Ala Ala Phe His Pro		380
385	390	395
Gly His Ile Val Pro Gly Leu Asp Phe Thr Asn Asp Pro Leu Leu Gln		400
	405	410
Gly Arg Leu Phe Ser Tyr Thr Asp Thr Gln Ile Ser Arg Leu Gly Gly		415
	420	425
Pro Asn Phe His Glu Ile Pro Ile Asn Arg Pro Thr Cys Pro Tyr His		430
	435	440
Asn Phe Gln Arg Asp Gly Met His Arg Gln Asp Ile Asp Thr Asn Pro		445
	450	455
Ala Asn Tyr Glu Pro Asn Ser Ile Asn Asp Asn Trp Pro Arg Glu Thr		460
465	470	475
Pro Pro Gly Pro Lys Arg Gly Gly Phe Glu Ser Tyr Gln Glu Arg Val		480
	485	490
Asp Gly Thr Lys Ile Arg Glu Arg Ser Pro Ser Phe Gly Glu Tyr Tyr		495
	500	505
Ala Gln Pro Arg Leu Phe Trp Asn Ser Gln Thr Pro Ile Glu Gln Gln		510
	515	520
His Ile Ile Gly Gly Phe Ser Phe Glu Leu Ser Lys Val Val Arg Thr		525
	530	535
Tyr Ile Arg Glu Arg Val Val Asp His Leu Ala His Ile Asp Ile Gln		540
545	550	555
Leu Ala Gln Gly Val Ala Asn Asn Leu Gly Ile Thr Leu Thr Asp Glu		560
	565	570
Gln Cys His Ala Ala Pro Pro Lys Asp Val Asn Gly Leu Lys Lys Asp		575
	580	585
Pro Ser Leu Ser Leu Tyr Ala Val Pro Gly Gly Ser Ile Lys Gly Arg		590
	595	600
Val Val Ala Ile Leu Leu Asn Asp Lys Pro Arg Ala Ser Asp Val Leu		605
	610	615
Gly Ile Met Arg Ala Leu Lys Thr Gln Gly Val His Ala Lys Leu Leu		620
625	630	635
Tyr Ser Arg Met Gly Glu Val Thr Ala Asp Asp Gly Ser Val Leu Pro		640
	645	650
Ile Ala Ala Thr Phe Ala Gly Ala Pro Ser Leu Thr Val Asp Ala Val		655
	660	665
Ile Met Pro Cys Gly Asp Val Glu Ser Leu Leu Gly Asn Gly Asp Ala		670
	675	680
Ala Tyr Tyr Leu Leu Glu Ala Tyr Lys His Leu Lys Pro Ile Ala Leu		685
	690	695
Ala Gly Asp Ala Arg Lys Phe Lys Thr Leu Leu Lys Val Pro Asp Gln		700
705	710	715
Gly Glu Glu Gly Ile Val Glu Gly Asp Asn Val Asp Asp Ala Phe Met		720
	725	730
Thr Arg Leu Phe Asp Leu Leu Ala Ala His Arg Val Trp Ser Arg Ser		735
	740	745
Ser Lys Ile Asp Gln Ile Pro Ala		750
	755	760

<211> 317

<212> PRT

<213> *Enterobacter cloacae*

<400> 9398

```

Pro Pro Pro Gly Ser Phe Leu Thr Thr Glu His Leu Leu His Cys Met
1      5      10      15
Pro Glu Gln Tyr Met Glu Gln Tyr Val Ser Arg Arg Gln Ser Ala Pro
20      25      30
Arg Leu Glu Phe Glu Ala Ala Ala Ile Tyr Glu Tyr Pro Glu His Leu
35      40      45
Arg Pro Trp Leu Glu Ala Leu Pro Lys Gln Pro Gly Val Tyr Phe Phe
50      55      60
His Gly Asp Ser Asp Thr Met Pro Leu Tyr Ile Gly Lys Ser Val Asn
65      70      75      80
Ile Arg Ser Arg Val Met Ser His Leu Arg Thr Pro Asp Glu Ala Ser
85      90      95
Met Leu Arg Gln Ser Arg Arg Ile Thr Trp Ile Glu Thr Ala Gly Glu
100      105      110
Leu Gly Ala Leu Leu Leu Glu Ala Arg Leu Ile Lys Glu Gln Gln Pro
115      120      125
Leu Phe Asn Lys Arg Leu Arg Arg Asn Arg Gln Leu Cys Ser Leu Gln
130      135      140
Val Asn Ala Gly Lys Pro Gln Val Val Tyr Ala Arg Glu Val Asp Phe
145      150      155      160
Ser His Glu Pro Asn Leu Tyr Gly Leu Phe Ala Asn Lys Arg Ala Ala
165      170      175
Leu Gln Thr Leu Gln Ser Leu Ala Asp Glu Leu Gln Leu Cys Tyr Gly
180      185      190
Leu Leu Gly Leu Glu Ala Thr Thr Arg Gly Arg Ala Cys Phe Arg Ser
195      200      205
Ala Leu Lys Arg Cys Ala Gly Ala Cys Cys Gly Lys Glu Ser Val Glu
210      215      220
Glu His His Ala Arg Phe Met Ala Gly Leu Ala Ser Ile Ser Val Asn
225      230      235      240
Cys Trp Pro Trp Glu Gly Ala Val Ala Leu Lys Glu Thr Arg Asp Ala
245      250      255
Met Thr His Tyr Thr Ile Ile Arg Asn Trp Leu Trp Leu Gly Ala Val
260      265      270
Glu Ser Leu Asp Asp Ala Thr Ala Leu Leu Arg Thr Pro Ala Gly Phe
275      280      285
Asp Gln Asp Gly Tyr Lys Ile Leu Cys Lys Pro Leu Leu Thr Gly Lys
290      295      300
Tyr Glu Ile Ile Val Leu Ser Asp Pro Ala Ala Arg
305      310      315

```

<210> 9399

<211> 161

<212> PRT

<213> *Enterobacter cloacae*

<400> 9399

```

Pro Val Ser Arg Pro Cys Thr Arg Phe Ser Thr Pro Gly Gly Ser
1      5      10      15
Pro Ala Cys Ser Gln Ser Phe Thr Thr Ala Ser Pro Val Lys Gly Val
20      25      30
Asn Ser Leu Gly Leu Lys Met Thr Val Phe Pro Ala Ser Ser Ala Gly
35      40      45
Thr Met Cys Pro Phe Gly Arg Cys Pro Gly Lys Leu Tyr Gly Pro Asn
50      55      60
Thr Ala Ser Thr Pro Cys Gly Arg Trp Arg Ser Val Ala Ala Pro Ser

```

65					70					75				80
Gly	Ile	Ser	Val	Cys	Cys	Ser	Pro	Val	Arg	Val	Trp	Tyr	Ala	Phe Thr
				85					90					95
Asp	Ile	Ala	Ile	Leu	Leu	Ile	Ile	Ala	Val	Thr	Ser	Val	Val	Ala Ser
			100					105					110	
Gln	Arg	Gly	Leu	Leu	Val	Ser	Gln	Ala	Met	Met	Arg	Val	Ser	Ser Ala
		115					120					125		
Leu	Leu	Ala	Ser	Ser	Ser	Ala	Ala	Asn	Phe	Ser	Thr	Ser	Ala	Trp Arg
		130				135					140			
Ser	Glu	Asn	Gly	Arg	Phe	Ala	His	Ala	Gly	Asn	Ala	Arg	Arg	Ala Ala
145					150					155				160

<210> 9400

<211> 515

<212> PRT

<213> Enterobacter cloacae

<400> 9400

Arg	Pro	Gly	Ala	Gly	Met	Ala	Ser	Pro	Leu	Arg	Asn	Pro	Leu	Ser	Gly
1				5					10					15	
Leu	Val	Trp	Ala	Ala	Met	Ala	Val	Ile	Tyr	Leu	Pro	Leu	Leu	Pro	Ala
			20					25					30		
Ser	Gly	Met	Leu	Leu	Ala	Pro	Ala	Phe	Ser	Pro	Gly	Asn	Trp	Ala	Thr
		35					40					45			
Leu	Phe	Ala	Asp	Pro	Gln	Leu	Pro	Gln	Ala	Leu	Ala	Ala	Thr	Leu	Val
	50					55					60				
Ser	Ala	Leu	Ile	Ala	Thr	Leu	Gly	Ser	Leu	Phe	Ile	Ala	Leu	Thr	Leu
65					70					75				80	
Leu	Ala	Leu	Leu	Trp	Pro	Gly	Glu	Gly	Trp	Gln	Arg	Leu	Ser	Thr	Arg
				85					90					95	
Leu	Pro	Trp	Leu	Ala	Val	Pro	His	Val	Ala	Phe	Ala	Thr	Ser	Ala	
			100				105					110			
Leu	Leu	Leu	Phe	Ala	Glu	Gly	Gly	Gln	Phe	Tyr	Arg	Ile	Cys	Thr	Val
		115				120						125			
Cys	Ser	Pro	Gln	Leu	Asp	Arg	Tyr	Gly	Ile	Gly	Leu	Gly	Leu	Thr	Leu
	130					135					140				
Ala	Val	Lys	Glu	Ser	Ala	Phe	Val	Leu	Trp	Thr	Ile	Tyr	Ala	Ala	Leu
145					150					155				160	
Pro	Glu	Lys	Arg	Leu	Val	Gln	Gln	Lys	Ile	Val	Leu	His	Thr	Phe	Gly
				165					170					175	
Tyr	Gly	Arg	Met	Gln	Ala	Leu	Asn	Trp	Leu	Ile	Leu	Pro	Ala	Ile	Ala
		180					185					190			
Pro	Ala	Leu	Gly	Ala	Val	Met	Leu	Ala	Val	Leu	Ala	Trp	Ser	Leu	Ser
		195				200					205				
Val	Val	Asp	Val	Ala	Ile	Val	Leu	Gly	Pro	Gly	Asn	Pro	Pro	Thr	Leu
	210					215					220				
Ala	Val	Leu	Ala	Trp	Gln	Trp	Leu	Thr	Gln	Gly	Asp	Ala	Gln	Gln	Gln
225					230					235				240	
Thr	Lys	Gly	Thr	Leu	Leu	Cys	Leu	Val	Leu	Leu	Leu	Leu	Leu	Ala	Ala
				245					250					255	
Leu	Ala	Ala	Val	Gly	Tyr	Gly	Phe	Trp	Thr	Ala	Trp	Arg	Arg	Ala	Gln
			260					265				270			
Pro	Ala	Pro	Ser	Gly	Val	Arg	Arg	Ala	Ser	His	Ser	Ala	Leu	Pro	Ala
		275				280					285				
Arg	Thr	Leu	Gly	Gly	Leu	Leu	Pro	Leu	Cys	Gly	Val	Leu	Cys	Ala	Leu
	290					295					300				
Val	Leu	Leu	Met	Leu	Ala	Arg	Arg	Asp	Asp	Ile	Gly	Pro	Val	Ser	Asp
305					310					315				320	
Ser	Leu	Ser	Leu	Gly	Leu	Leu	Ser	Ser	Leu	Thr	Ala	Leu	Ala	Ile	Leu

325 330 335
 Met Ile Trp Leu Glu Trp Gly Pro Gln Arg Gly Ala Val Trp Ile Trp
 340 345 350
 Leu Pro Leu Ala Leu Pro Ala Leu Pro Leu Val Ser Gly Gln Tyr Ala
 355 360 365
 Val Ala Leu Trp Leu Gly Ile Asp Gly Gln Tyr Ala Ala Val Leu Trp
 370 375 380
 Ser His Met Leu Trp Val Leu Pro Trp Met Leu Leu Val Leu Gln Pro
 385 390 395 400
 Ala Trp Arg Arg Leu Asp Pro Arg Leu Ile Leu Thr Ala Arg Thr Leu
 405 410 415
 Gly Trp Arg Arg Ala Lys Ile Phe Trp Leu Val Lys Cys Pro Leu Met
 420 425 430
 Val Arg Pro Ala Leu Leu Ala Phe Ala Thr Gly Phe Ser Val Ser Met
 435 440 445
 Ala Gln Tyr Met Pro Thr Leu Trp Leu Gly Ala Gly Arg Phe Thr Thr
 450 455 460
 Leu Thr Thr Glu Ala Val Ala Leu Ser Ser Gly Gly Ser Ile Pro Ile
 465 470 475 480
 Leu Ala Ser Arg Ala Leu Gly Leu Leu Leu Thr Ser Ser Val Phe
 485 490 495
 Ala Leu Ala Ala Leu Leu Ser Arg Leu Val Gly Arg His Arg Gln Gly
 500 505 510
 Leu Arg
 515

<210> 9401

<211> 468

<212> PRT

<213> Enterobacter cloacae

<400> 9401

Leu Arg Phe Leu Ala Gly Asn Asn Val Leu Thr Gln Cys Phe Trp Leu
 1 5 10 15
 Gln Glu Arg Arg Gln Cys Pro Pro Leu Leu Met Thr Ser Gly Phe Ser
 20 25 30
 Met Lys Arg Val Ser Gln Leu Thr Ala Leu Ala Leu Ile Cys Gly Leu
 35 40 45
 Ala Ser Leu Ser Ser Thr Ala Ala Asp Met Pro His Ser Leu Thr Leu
 50 55 60
 Ala Gln Leu Gln Thr Gln Asn Gly Ala Val Ile Asp Thr Arg Ile Ser
 65 70 75 80
 Ala Phe Tyr Asn Gly Trp Pro Gln Thr Leu Ser Gly Thr Ser Gly His
 85 90 95
 Glu Pro Ala Ala Leu Asn Leu Ser Ala Ser Trp Leu Gly Ala Met Ser
 100 105 110
 Asp Glu Gln Leu Ser Gly Trp Ala Lys Gln His Arg Leu Thr Pro Asp
 115 120 125
 Met Pro Val Ala Leu Tyr Gly Asn Asp Asn Asp Asn Gln Thr Val Lys
 130 135 140
 Thr Arg Leu Glu Lys Ala Gly Phe Thr His Val Ser Thr Leu Ser Asp
 145 150 155 160
 Ala Leu Gln Gln Ser Asp Arg Leu Gln Arg Leu Ala His Phe Glu Gln
 165 170 175
 Leu Val Tyr Pro Gln Trp Ile Arg Gln Leu Gln Gln Gly Lys Pro Val
 180 185 190
 Thr Ala Ala Pro Ala Gly Glu Trp Lys Val Ile Glu Ala Gly Trp Gly
 195 200 205
 Thr Pro Lys Leu Tyr Leu Leu Ser His Ile Pro Asp Ala Gly Tyr Ile
 210 215 220
 Asp Thr Asn Glu Val Glu Ser Glu Pro Leu Trp Asn Lys Val Ser Asp

```

225          230          235          240
Glu Lys Leu Lys Ala Met Leu Ala Lys His Gly Ile Arg His Asp Thr
245          250          255
Thr Val Ile Leu Tyr Gly Arg Asp Val Tyr Ala Ala Ala Arg Val Ala
260          265          270
Gln Ile Met Leu Tyr Ala Gly Val Arg Asp Val Arg Ile Leu Asp Gly
275          280          285
Gly Trp Lys Ala Trp Ser Asp Ala Ser Leu Pro Val Glu Arg Gly Thr
290          295          300
Pro Ala Asn Val Lys Pro Ala Pro Asp Phe Gly Ala Pro Ile Pro Gly
305          310          315
Gln Pro Gln Leu Met Val Asp Met Glu Gln Ala Arg Gly Met Leu His
325          330          335
Arg Gln Asp Ala Ser Leu Val Ser Ile Arg Ser Trp Pro Glu Phe Ile
340          345          350
Gly Glu Thr Ser Gly Tyr Ser Tyr Ile Lys Pro Lys Gly Glu Ile Ala
355          360          365
Gly Ala Arg Trp Gly His Ala Gly Ser Asp Ala Thr His Met Glu Asp
370          375          380
Phe His Asn Pro Asp Gly Thr Met Arg Ser Ala Asp Asp Ile Ala Ala
385          390          395
Met Trp Lys Thr Trp Asn Ile Leu Pro Glu Gln His Val Ala Phe Tyr
405          410          415
Cys Gly Thr Gly Trp Arg Ala Ser Glu Ala Phe Met Tyr Ala Arg Ala
420          425          430
Met Gly Trp Gln Asn Val Ala Val Tyr Asp Gly Gly Trp Tyr Glu Trp
435          440          445
Ser Ser His Pro Gln Asn Pro Val Ser Thr Gly Glu Arg Gly Pro Glu
450          455          460
Ser Ala Arg
465

```

<210> 9402

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 9402

```

Leu Leu Thr Asn Met Leu Lys Thr Leu Asp Val Val Ala Ala Ile Leu
1          5          10          15
Glu Asn Glu Gly Lys Ile Leu Leu Ala Gln Arg Pro Glu His Ala Asp
20          25          30
Gln Pro Gly Met Trp Glu Phe Ala Gly Gly Lys Val Glu Ala Gly Glu
35          40          45
Thr Gln Pro Glu Ala Leu Ile Arg Glu Leu Arg Glu Glu Leu Gly Ile
50          55          60
Glu Ala Val Pro Ala Arg Tyr Val Ala Ser His Gln Arg Glu Val Ser
65          70          75          80
Gln Arg Leu Ile His Leu His Ala Trp His Val Pro Glu Phe Ser Gly
85          90          95
Glu Leu Lys Ala His Tyr His Ser Ala Leu Val Trp Cys Thr Pro Glu
100          105          110
Asp Ala Phe Thr Tyr Asp Leu Ala Pro Ala Asp Ile Pro Leu Leu Glu
115          120          125
Ala Phe Ile Leu Leu Arg Asp Ala Arg Pro Ala Gly Leu Tyr
130          135          140

```

<210> 9403

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 9403

```

Arg Ile Asp Cys Pro Pro Ser Ala Trp Gly Val Thr Leu Phe Gln Ala
1      5      10      15
Ala Ser Ala Ala Cys Pro Ala Lys Ser Lys Gln Arg Phe Thr Leu Phe
20     25     30
Ala Phe Leu Ile Pro Asp Ser Tyr Ser Tyr Val Gln Asn Asp Asn Asn
35     40     45
Leu Thr Ser Glu Ala Arg Met Ile Leu Asp Ala Phe Thr Leu Ala Gly
50     55     60
Lys Val Ala Met Val Thr Gly Cys Asp Thr Gly Leu Gly Gln Gly Met
65     70     75     80
Ala Ile Ala Leu Ala Glu Ala Gly Cys Asp Ile Val Gly Val Asn Arg
85     90     95
Lys Val Pro Asp Glu Thr Ala Ala Arg Val Thr Ala Leu Gly Arg Arg
100    105    110
Phe Ile Ala Ile Arg Ala Asp Leu Gly Lys Gln Glu Ser Ile Gln Ser
115    120    125
Val Val Asp Thr Ala Val Ala Glu Met Gly Arg Ile Asp Ile Leu Val
130    135    140
Asn Asn Ala Gly Thr Ile Arg Arg Ala Asp Ala Leu Glu Phe Ser Glu
145    150    155    160
Lys Asp Trp Asp Glu Val Ile Asp Leu Asn Leu Lys Ser Val Phe Phe
165    170    175
Leu Ser Gln Ala Val Ala Lys Gln Phe Ile Ala Gln Gly Gln Gly Gly
180    185    190
Lys Ile Ile Asn Ile Ala Ser Met Leu Ser Phe Gln Gly Gly Ile Arg
195    200    205
Val Pro Ser Tyr Thr Ala Ser Lys Ser Gly Val Leu Gly Leu Thr Arg
210    215    220
Leu Leu Ala Asn Glu Trp Ala Thr Leu Gly Ile Asn Val Asn Ala Ile
225    230    235    240
Ala Pro Gly Tyr Met Val Thr Asn Asn Thr Arg Gln Leu Arg Asp Asp
245    250    255
Glu Gln Arg Ser Gln Ala Ile Leu Asp Arg Ile Pro Ala Gly Arg Trp
260    265    270
Gly Leu Pro Glu Asp Leu Gln Gly Pro Val Val Phe Leu Ala Ser Arg
275    280    285
Ala Ser Asp Tyr Val Asn Gly His Thr Leu Ala Val Asp Gly Gly Trp
290    295    300
Leu Ala Arg
305

```

<210> 9404

<211> 469

<212> PRT

<213> *Enterobacter cloacae*

<400> 9404

```

Ile Arg Arg Thr Gly Met Asn Phe Pro Leu Ile Ala Asn Ile Val Val
1      5      10      15
Phe Val Val Leu Leu Leu Leu Leu Ala Gln Ala Arg His Lys Gln Trp
20     25     30
Ser Leu Ala Lys Lys Val Leu Val Gly Leu Val Met Gly Val Val Phe
35     40     45
Gly Leu Ala Leu His Ala Ile Tyr Gly Ser Asp Ser Pro Val Leu Lys
50     55     60
Asp Ser Ile Gln Trp Phe Asn Ile Val Gly Asn Gly Tyr Val Gln Leu
65     70     75     80
Leu Gln Met Ile Val Met Pro Leu Val Phe Ala Ser Ile Leu Ser Ala
85     90     95

```

Val Ala Arg Leu His Asn Ala Ser Gln Leu Gly Lys Ile Ser Phe Leu
 100 105 110
 Thr Ile Gly Thr Leu Leu Phe Thr Thr Leu Ile Ala Ala Leu Val Gly
 115 120 125
 Val Leu Val Thr Asn Leu Phe Gly Leu Thr Ala Glu Gly Leu Val Gln
 130 135 140
 Gly Ser Ala Glu Thr Ala Arg Leu Thr Ala Ile Glu Thr Asn Tyr Val
 145 150 155 160
 Gly Lys Val Ala Asp Leu Thr Val Pro Gln Met Val Leu Ser Phe Ile
 165 170 175
 Pro Lys Asn Pro Phe Ala Asp Leu Thr Gly Ala Ser Pro Thr Ser Ile
 180 185 190
 Ile Ser Val Val Ile Phe Ala Ala Phe Leu Gly Val Ala Ala Leu Lys
 195 200 205
 Leu Leu Lys Asp Asp Ala Pro Lys Gly Glu Arg Val Leu Thr Ala Ile
 210 215 220
 Asp Thr Leu Gln Ser Trp Val Met Lys Leu Val Arg Leu Val Met Gln
 225 230 235 240
 Leu Thr Pro Tyr Gly Val Leu Ala Leu Met Thr Lys Val Val Ala Gly
 245 250 255
 Ser Asn Leu Gln Asp Ile Ile Lys Leu Gly Ser Phe Val Ile Ala Ser
 260 265 270
 Tyr Leu Gly Leu Gly Ile Met Phe Val Val His Gly Ile Leu Leu Gly
 275 280 285
 Val Asn Gly Val Gly Pro Leu Lys Tyr Phe Arg Lys Val Trp Pro Val
 290 295 300
 Leu Thr Phe Ala Phe Thr Ser Arg Ser Ser Ala Ala Ser Ile Pro Leu
 305 310 315 320
 Asn Val Glu Ala Gln Thr Arg Arg Leu Gly Val Pro Glu Ser Ile Ala
 325 330 335
 Ser Phe Ser Ala Ser Phe Gly Ala Thr Ile Gly Gln Asn Gly Cys Ala
 340 345 350
 Gly Leu Tyr Pro Ala Met Leu Ala Val Met Val Ala Pro Thr Val Gly
 355 360 365
 Ile Asn Pro Leu Asp Pro Val Trp Ile Ala Thr Leu Val Gly Ile Val
 370 375 380
 Thr Ile Ser Ser Ala Gly Val Ala Gly Val Gly Gly Ala Thr Phe
 385 390 395 400
 Ala Ala Leu Ile Val Leu Pro Ala Leu Gly Leu Pro Val Thr Leu Val
 405 410 415
 Ala Leu Leu Ile Ser Val Glu Pro Leu Ile Asp Met Gly Arg Thr Ala
 420 425 430
 Leu Asn Val Ser Gly Ser Met Thr Ala Gly Thr Leu Thr Ser Gln Trp
 435 440 445
 Leu Lys Gln Thr Asp Lys Thr Ile Leu Asp Ser Glu Asp Asp Ala Glu
 450 455 460
 Leu Ala His Arg
 465

<210> 9405

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 9405

Leu Gly Glu Ala Asp Asn Arg Arg Arg Lys Phe Cys Tyr His Pro Cys
 1 5 10 15
 Thr Ile His Leu Ala Leu Ala Ala Thr Met Lys Phe Val Ser Phe Asn
 20 25 30
 Ile Asn Gly Leu Arg Ala Arg Pro His Gln Leu Glu Ala Ile Val Glu
 35 40 45

Gln His Gln Pro Asp Val Ile Gly Leu Gln Glu Thr Lys Val His Asp
 50 55 60
 Asp Met Phe Pro Leu Glu Val Ala Lys Leu Gly Tyr Asn Val Phe
 65 70 75 80
 Tyr His Gly Gln Lys Gly His Tyr Gly Val Ala Leu Leu Thr Lys Asp
 85 90 95
 Thr Pro Val Ser Val Arg Arg Gly Phe Pro Gly Asp Gly Glu Ala
 100 105 110
 Gln Arg Arg Ile Ile Met Ala Glu Ile Pro Ser Ala Leu Gly Asn Val
 115 120 125
 Thr Val Ile Asn Gly Tyr Phe Pro Gln Gly Glu Ser Arg Asp His Glu
 130 135 140
 Thr Lys Phe Pro Ala Lys Ala Lys Phe Tyr Gln Asp Leu Gln Asn Tyr
 145 150 155 160
 Leu Thr Thr Glu Leu Lys Lys Glu Asn Pro Val Leu Ile Met Gly Asp
 165 170 175
 Met Asn Ile Ser Pro Thr Asp Leu Asp Ile Gly Ile Gly Glu Glu Asn
 180 185 190
 Arg Lys Arg Trp Leu Arg Thr Gly Lys Cys Ser Phe Leu Pro Glu Glu
 195 200 205
 Arg Glu Trp Met Glu Arg Leu Glu Gly Trp Gly Leu Val Asp Thr Phe
 210 215 220
 Arg Thr Ala Asn Pro Glu Thr Gln Asp Arg Phe Ser Trp Phe Asp Tyr
 225 230 235 240
 Arg Ser Lys Gly Phe Asp Asp Asn Arg Gly Leu Arg Ile Asp Leu Leu
 245 250 255
 Leu Ala Ser Ala Pro Leu Ala Glu Arg Cys Ile Glu Thr Gly Ile Asp
 260 265 270
 Tyr Asp Ile Arg Ser Met Glu Lys Pro Ser Asp His Ala Pro Val Trp
 275 280 285
 Ala Thr Phe Lys Leu
 290

<210> 9406

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 9406

Thr Ser Val Asn Ile Lys Lys Ile Ser Leu Leu Cys Ala Leu Leu Gly
 1 5 10 15
 Ala Phe Val Leu Ile Val Val Leu Leu Pro Pro Gly Met Leu Ser Leu
 20 25 30
 Asp Thr Leu Lys Ile His Gln Gln Thr Leu Leu Ala Arg Val Glu Gln
 35 40 45
 Ala Pro Leu Gln Ser Ala Leu Phe Tyr Phe Ala Val Tyr Val Leu Leu
 50 55 60
 Ser Ala Leu Ser Ile Pro Gly Ala Ala Leu Leu Thr Leu Leu Gly Gly
 65 70 75 80
 Ala Leu Phe Ser Leu Trp Glu Ala Thr Leu Leu Val Ser Phe Ala Ser
 85 90 95
 Thr Leu Gly Ala Thr Leu Ala Met Leu Val Ser Arg Tyr Leu Leu Arg
 100 105 110
 Asp Trp Val Gln Arg Arg Phe Ala Gln Met Asn Thr Ile Asp Ala
 115 120 125
 Gly Met Asp Arg Asp Gly Ala Arg Tyr Leu Phe Ala Leu Arg Leu Met
 130 135 140
 Pro Leu Phe Pro Phe Phe Leu Val Asn Leu Leu Met Gly Leu Thr Arg
 145 150 155 160
 Leu Arg Val Arg His Tyr Trp Trp Val Ser Gln Leu Ala Met Leu Pro
 165 170 175

```
<210> 9407
<211> 392
<212> PRT
<213> Enterobacter cloacae
```

Gly 1	Ile	Met	Arg	Arg 5	Val	Arg	Phe	Cys	Ala 10	Phe	Leu	Thr	Ser	Leu 15	Leu
Leu	Ala	Thr	Ser 20	Ala	Phe	Ala	Ala	Glu 25	Ser	Trp	Gln	Ser	Ile 30	Gln	Gln
Gln	Ala	Thr 35	Gly	Gln	Thr	Val	Trp 40	Phe	Asn	Ala	Trp	Gly 45	Gly	Asp	Glu
Ala	Val	Asn 50	Arg	Tyr	Leu	Asp 55	Trp	Val	Ser	Gly	Glu 60	Met	Lys	Thr	His
Tyr 65	Ala	Ile	Asn	Leu	Lys 70	Ile	Val	His	Leu	Ala 75	Asp	Ala	Ala	Asp	Ala 80
Val	Lys	Arg	Ile	Gln 85	Thr	Glu	His	Ala	Ala 90	Gly	Arg	Ser	Ser	Asn	Gly
Ser	Val	Asp	Leu 100	Leu	Trp	Val	Asn	Gly 105	Glu	Asn	Phe	Arg	Asn 110	Leu	Lys
Ala	Ala	Asn 115	Val	Leu	Leu	Thr	Gly 120	Trp	Ala	Gln	Thr	Leu 125	Pro	Asn	Trp
Arg 130	Tyr	Val	Asp	Thr	Arg	Lys 135	Pro	Val	Thr	Glu	Asp 140	Phe	Ala	Ile	Pro
Thr 145	Asp	Gly	Ala	Glu	Ser 150	Pro	Trp	Gly	Gly	Ala 155	Gln	Leu	Thr	Phe	Ile 160
Ala	Arg	Lys	Ala	Ser 165	Thr	Pro	Thr	Pro	Pro 170	Ala	Asp	Pro	His	Ala	Leu 175
Leu	Val	Tyr	Ala 180	Arg	Gln	His	Pro	Gly 185	Lys	Val	Ser	Tyr	Pro 190	Arg	Pro
Pro	Asp	Phe 195	Thr	Gly	Thr	Ala	Phe 200	Leu	Glu	Gln	Leu	Leu 205	Ala	Leu	
Thr 210	Ala	His	Pro	Glu	Ala 215	Leu	Lys	Asn	Ala	Pro	Asp 220	Ser	Thr	Phe	Ala
Gln 225	Val	Thr	Ala	Pro	Leu 230	Trp	Asp	Tyr	Leu	Asp 235	Thr	Leu	His	Pro	Leu 240
Leu	Trp	Arg	Glu	Gly 245	Asn	Asp	Phe	Pro	Pro	Ser	Pro	Ala	Arg	Met	Asp
Thr	Leu	Leu	Ala 260	Ser	Gly	Ser	Leu	Asn 265	Leu	Ser	Leu	Thr	Phe 270	Asn	Pro
Ala	His	Ala 275	Met	Gln	Lys	Val	Ala 280	Ser	Gly	Glu	Leu	Pro 285	Ala	Asp	Ser
Tyr 290	Ser	Phe	Gly	Phe	Leu	Lys 295	Gly	Met	Ile	Gly	Asn 300	Val	His	Phe	Val
Ala 305	Ile	Pro	Ala	Asn	Ala 310	Ser	Ala	Ser	Ala	Gly 315	Ala	Lys	Val	Val	Ala 320
Asn	Phe	Leu	Leu	Ser 325	Pro	Gln	Ala	Gln	Ile 330	Arg	Lys	Ala	Asn	Pro	Ala 335
Val	Trp	Gly	Asp 340	Pro	Ser	Val	Leu	Asp 345	Gly	Glu	Lys	Leu	Pro 350	Ala	Lys
Ala	Ala	Lys 355	Gln	Leu	Arg	Ala	Phe 360	Thr	Pro	Ser	Gly	Thr 365	Pro	Asp	Val

```
<210> 9408
<211> 453
<212> PRT
<213> Enterobacter cloacae
```

<div><400></div>	<div>9408</div>															
Glu 1	Val	Leu	Ile	Ser 5	Met	Asp	Gln	Thr	Arg 10	Ser	Leu	Glu	Ser 15	Phe	Leu	
Ala	His	Val	Gln 20	Gln	Arg	Asp	Pro	His 25	Gln	Ser	Glu	Phe 30	Ala	Gln	Ala	
Val	Arg	Glu 35	Val	Met	Thr	Thr	Leu 40	Trp	Pro	Phe	Leu 45	Glu	Asn	Pro		
Arg	Tyr 50	Arg	Gln	Met	Ala	Leu 55	Leu	Glu	Arg	Leu 60	Val	Glu	Pro	Glu	Arg	
Val 65	Ile	Gln	Phe	Arg 70	Val	Ala	Trp	Val	Asp 75	Asp	Arg	Asn	Gln	Val	Gln 80	
Val	Asn	Arg	Ala 85	Trp	Arg	Val	Gln	Phe 90	Asn	Ser	Ala	Ile	Gly 95	Pro	Phe 80	
Lys	Gly	Gly 100	Met	Arg	Phe	His	Pro	Ser 105	Val	Asn	Leu	Ser	Ile 110	Leu	Lys	
Phe	Leu	Gly 115	Phe	Glu	Gln	Thr	Phe 120	Lys	Asn	Ala	Leu	Thr 125	Thr	Leu	Pro	
Met	Gly 130	Gly	Gly	Lys	Gly 135	Ser	Asp	Phe	Asp	Pro 140	Lys	Gly	Lys	Ser		
Glu 145	Gly	Glu	Val	Met 150	Arg	Phe	Cys	Gln	Ala	Leu 155	Val	Thr	Glu	Leu	Tyr 160	
Arg	His	Leu	Gly 165	Pro	Asp	Thr	Asp	Val 170	Pro	Ala	Gly	Asp	Ile 175	Gly	Val	
Gly	Gly	Arg	Glu 180	Val	Gly	Phe	Met	Ala 185	Gly	Met	Met	Lys	Lys 190	Leu	Ser	
Asn	Asn	Ser 195	Ala	Cys	Val	Phe	Thr 200	Gly	Lys	Gly	Leu	Ser 205	Phe	Gly	Gly	
Ser	Leu 210	Ile	Arg	Pro	Glu	Ala 215	Thr	Gly	Tyr	Gly	Leu	Val 220	Tyr	Phe	Thr	
Glu 225	Ala	Met	Leu	Lys	Arg 230	His	Gly	Leu	Ser	Phe 235	Glu	Gly	Met	Arg	Val 240	
Ala	Val	Ser	Gly 245	Ser	Gly	Asn	Val	Ala 250	Gln	Tyr	Ala	Ile	Glu	Lys 255	Ala	
Met	Ala	Phe 260	Gly	Ala	Arg	Val	Val 265	Thr	Ala	Ser	Asp	Ser	Ser 270	Gly	Thr	
Val	Val	Asp 275	Glu	Ala	Gly	Phe	Thr 280	Ala	Glu	Lys	Leu	Ala 285	Arg	Leu	Cys	
Glu	Ile 290	Lys	Ala	Ser	Arg	Asp 295	Gly	Arg	Val	Ala	Asp 300	Tyr	Ala	Arg	Glu	
Phe 305	Gly	Leu	Thr	Tyr	Leu 310	Glu	Gly	Lys	Gln	Pro 315	Trp	Gly	Val	Pro	Val 320	
Asp	Ile	Ala	Leu 325	Pro	Cys	Ala	Thr	Gln	Asn 330	Glu	Leu	Asp	Val	Asp 335	Ala	
Ala	Arg	Thr 340	Leu	Ile	Ser	Asn	Gly 345	Val	Lys	Ala	Val	Ala 350	Glu	Gly	Ala	
Asn	Met 355	Pro	Thr	Thr	Ile	Asp	Ala 360	Thr	Asp	Leu	Phe	Leu 365	Asp	Ala	Gly	
Val	Leu 370	Phe	Ala	Pro	Gly	Lys 375	Ala	Ala	Asn	Ala	Gly 380	Val	Val	Ala	Thr	
Ser 385	Gly	Leu	Glu	Met	Ala 390	Gln	Asn	Ala	Ala	Arg 395	Met	Ser	Trp	Lys	Ala	

Glu Lys Val Asp Ala Arg Leu His His Ile Met Leu Asp Ile His His
 405 410
 Ala Cys Val Glu Tyr Gly Gly Glu Ala Ser Gln Thr Asn Tyr Val Arg
 420 425 430
 Gly Ala Asn Ile Ala Gly Phe Val Lys Val Ala Asp Ala Met Ile Gly
 435 440 445
 Gln Gly Val Ile
 450

<210> 9409

<211> 376

<212> PRT

<213> Enterobacter cloacae

<400> 9409

Ser Thr Glu Pro Leu Arg Val Leu Pro Asp Leu Arg Glu Arg Ala Leu
 1 5 10 15
 Lys Thr Val Pro Ser Ser Arg Glu Glu Gly Ile Phe Ser Phe Glu Glu
 20 25 30
 Gln Glu Leu Ile Thr Met Gln Lys Lys Ser Ile Tyr Val Ala Tyr Thr
 35 40 45
 Gly Gly Thr Ile Gly Met Gln Arg Ser Glu Asn Gly Tyr Ile Pro Val
 50 55 60
 Ser Gly His Leu Gln Arg Gln Leu Ala Leu Met Pro Glu Phe His Arg
 65 70 75 80
 Pro Glu Met Pro Asp Phe Thr Ile His Glu Tyr Glu Pro Leu Met Asp
 85 90 95
 Ser Ser Asp Met Thr Pro Glu Asp Trp Gln His Ile Ala Asp Asp Ile
 100 105 110
 Lys Ala His Tyr Asp Gln Tyr Asp Gly Phe Val Ile Leu His Gly Thr
 115 120 125
 Asp Thr Met Ala Phe Thr Ala Ser Ala Leu Ser Phe Met Leu Glu Asn
 130 135 140
 Leu Ser Lys Pro Val Ile Val Thr Gly Ser Gln Ile Pro Leu Ala Glu
 145 150 155 160
 Leu Arg Ser Asp Gly Gln Ile Asn Leu Leu Asn Ser Leu Tyr Val Ala
 165 170 175
 Ala Asn Tyr Pro Ile Asn Glu Val Thr Leu Phe Phe Asn Asn Arg Leu
 180 185 190
 Tyr Arg Gly Asn Arg Thr Thr Lys Ala His Ala Asp Gly Phe Asp Ala
 195 200 205
 Phe Ala Ser Pro Asn Leu Gln Pro Leu Leu Glu Ala Gly Ile His Ile
 210 215 220
 Arg Arg Leu Gly Thr Pro Pro Ala Pro Asn Thr Ala Gly Glu Leu Ile
 225 230 235 240
 Val His Pro Ile Thr Pro Gln Pro Ile Gly Val Val Thr Ile Tyr Pro
 245 250 255
 Gly Ile Ser Ala Asp Val Val Arg Asn Phe Leu Arg Gln Pro Val Lys
 260 265 270
 Ala Leu Ile Leu Arg Ser Tyr Gly Val Gly Asn Ala Pro Gln Asn Gly
 275 280 285
 Glu Phe Leu Lys Glu Leu Gln Glu Ala Ser Asp Arg Gly Ile Val Val
 290 295 300
 Val Asn Leu Thr Gln Cys Met Ser Gly Lys Val Asn Met Gly Gly Tyr
 305 310 315 320
 Ala Thr Gly Asn Ala Leu Ala His Ala Gly Val Ile Ser Gly Phe Asp
 325 330 335
 Met Thr Val Glu Ala Thr Leu Thr Lys Leu His Tyr Leu Leu Ser Gln
 340 345 350
 Asp Leu Asp Ile Asp Ser Ile Arg Arg Ala Met Met Gln Asn Leu Arg
 355 360 365

Gly Glu Leu Thr Pro Asp Glu
370 375

<210> 9410

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 9410

```

Gly Asp Pro Met Lys Gln Arg Ala Leu Leu Leu Val Asp Leu Gln Asn
1      5      10      15
Asp Phe Cys Ala Gly Gly Ala Leu Ala Val Ala Glu Gly Asp Ser Thr
20      25      30
Val Asp Val Ala Asn Ser Leu Ile Ala Trp Cys Lys Ala Arg Gly Glu
35      40      45
Ala Val Val Ala Ser Gln Asp Trp His Pro Ala Asn His Gly Ser Phe
50      55      60
Ala Ser Gln His Asn Val Glu Pro Phe Ser Gln Gly Glu Leu Asp Gly
65      70      75      80
Leu Ala Gln Thr Phe Trp Pro Asp His Cys Val Gln Gln Thr Glu Gly
85      90      95
Ala Glu Leu His Pro Leu Leu Asn Gln Lys Ala Ile Asp Ala Val Phe
100     105     110
His Lys Gly Glu Asn Pro Thr Ile Asp Ser Tyr Ser Ala Phe Phe Asp
115     120     125
Asn Gly His Arg Gln Lys Thr Ala Leu Asp Ala Trp Leu Arg His His
130     135     140
Glu Ile Thr Glu Leu Ile Val Leu Gly Leu Ala Thr Asp Tyr Cys Val
145     150     155     160
Lys Phe Thr Val Leu Asp Ala Leu Gln Leu Gly Tyr Thr Val Asn Val
165     170     175
Ile Thr Asp Gly Cys Arg Gly Val Asn Ile Gln Pro Gln Asp Ser Ala
180     185     190
Gln Ala Phe Met Asp Met Ala Ala Glu Gly Ala Thr Leu Tyr Thr Leu
195     200     205
Ala Asp Trp Met Glu Thr Gln Ala
210     215

```

<210> 9411

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 9411

```

Thr Pro Ser His His Lys Arg Asn Gly Asp Ala Ile Leu Ser Arg Leu
1      5      10      15
Phe Phe Arg His Ala Phe Ser Val Ala Trp Leu Phe Leu Phe Ser Gln
20      25      30
Arg Gly Asn Tyr Met Lys Arg Leu Pro Leu Leu Ala Ala Leu Pro Leu
35      40      45
Leu Cys Ala Ser Leu Ala Ser Ala Ala Pro Leu Met Ser Val Gly Tyr
50      55      60
Phe Asn Gly Gly Gly Asp Val Thr Ala Gly Pro Gly Gly Asp Ile His
65      70      75      80
Lys Leu Asp Val Arg Gln Ile Thr His Leu Asn Tyr Ser Phe Gly Leu
85      90      95
Val Tyr Asn Asn Glu Lys Asp Glu Thr Asn Ala Ala Leu Lys Asp Pro
100     105     110
Ala Lys Leu His Gln Ile Trp Leu Ser Pro Lys Val Ala Ser Asp Leu
115     120     125
Ala Leu Leu Pro Gln Leu Arg Lys Gln Asn Pro Asn Leu Lys Val Leu

```

```

      130                      135                      140
Leu Ser Val Gly Gly Trp Gly Ala Arg Gly Phe Ser Gly Ala Ala Ala
145                      150                      155                      160
Thr Lys Glu Ser Arg Ala Val Phe Ile Arg Ser Ala Gln Glu Ile Val
      165                      170                      175
Ser Gln Tyr Gly Leu Asp Gly Ile Asp Leu Asp Trp Glu Phe Pro Val
      180                      185                      190
Asn Gly Ala Trp Gly Leu Val Glu Ser Thr Pro Ala Asp Arg Asp Asn
      195                      200                      205
Phe Thr Ala Leu Leu Lys Glu Met Arg Asp Ala Phe Gly Lys Lys Lys
      210                      215                      220
Leu Val Thr Ile Ala Val Gly Ala Asn Ala Glu Ser Pro Lys Ser Trp
225                      230                      235                      240
Val Asp Val Lys Ala Ile Ala Pro Leu Leu Asp Tyr Ile Asn Leu Met
      245                      250                      255
Thr Tyr Asp Met Ala Tyr Gly Thr Gln Tyr Phe Asn Ala Asn Leu Tyr
      260                      265                      270
Asp Ser Ser Asp Trp Pro Thr Val Ala Ala Ala Asp Lys Tyr Ser Val
      275                      280                      285
Asp Phe Val Val Asn Asn Tyr Leu Ala Ala Gly Leu Lys Pro Gln Gln
      290                      295                      300
Met Asn Leu Gly Ile Gly Phe Tyr Gly Arg Val Pro Lys Arg Ala Val
305                      310                      315                      320
Glu Pro Gly Ile Asp Trp Ser Lys Pro Asp Ala Gln Asn Asn Pro Val
      325                      330                      335
Thr Gln Pro Tyr Phe Gly Pro Gln Glu Leu Ser Leu Phe Lys Ser Leu
      340                      345                      350
Gly Tyr Asp Leu Thr Lys Asp Thr Tyr Val Lys Tyr Asn Asp Ile Val
      355                      360                      365
Arg Lys Leu Leu Asn Asp Pro Gln Lys Arg Phe Thr Glu His Trp Asp
      370                      375                      380
Glu Gln Ala Lys Val Pro Trp Leu Ser Val Lys Ser Ala Asp Gly Lys
385                      390                      395                      400
Ala Leu Phe Ala Ile Ser Tyr Glu Asn Pro Arg Ser Val Ala Ile Lys
      405                      410                      415
Ala Asp Tyr Ile Lys Glu Lys Gly Leu Ala Gly Ala Met Phe Trp Glu
      420                      425                      430
Tyr Gly Ala Asp Asp Glu Asn Gln Leu Ala Lys Gln Leu Ala Glu Ser
      435                      440                      445
Leu Gly Ile Leu His Gln
      450                      455

```

<210> 9412

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 9412

```

Lys Glu Val Met Met Ala Ser Ile Tyr Thr Leu Thr Leu Ser Pro Ser
1      5      10
Leu Asp Ser Ala Thr Met Thr Pro Gln Ile Tyr Pro Glu Gly Lys Leu
      20      25      30
Arg Cys Ser Ala Pro Val Phe Glu Pro Gly Gly Gly Ile Asn Val
      35      40      45
Ala Arg Ala Ile Thr His Leu Gly Gly Lys Ala Thr Ala Ile Phe Pro
      50      55      60
Ala Gly Gly Ala Thr Gly Glu His Leu Val Ala Leu Leu Ala Asp Glu
65      70      75                      80
Gln Val Ala Val Asp Thr Val Asp Ala Lys Asp Trp Thr Arg Gln Asn
      85      90      95
Leu His Val His Val Glu Ser Ser Gly Glu Gln Tyr Arg Phe Val Met

```


100 105 110
 Pro Gly Ala Lys Leu Thr Asp Asp Glu Phe Arg Gln Leu Glu Glu Lys
 115 120 125
 Val Leu Thr Ile Glu Ser Gly Ser Leu Leu Val Ile Ser Gly Ser Leu
 130 135 140
 Pro Pro Gly Val Lys Thr Glu Lys Leu Thr Ala Leu Val Gln Ala Ala
 145 150 155 160
 Leu Gln Arg Gly Ile Arg Cys Ile Val Asp Ser Ser Gly Glu Ala Leu
 165 170 175
 Lys Ala Ala Leu Glu Pro Gly Gln Leu Glu Leu Val Lys Pro Asn Gln
 180 185 190
 Lys Glu Leu Ser Ala Leu Val Asn Arg Glu Leu Ser Gln Pro Asp Asp
 195 200 205
 Val Arg Thr Ala Ala Glu Glu Leu Val Arg Thr Gly Lys Ala His Arg
 210 215 220
 Val Val Val Ser Leu Gly Pro Gln Gly Ala Leu Ala Val Asp Lys Thr
 225 230 235 240
 Gly Phe Val Gln Val Val Pro Pro Pro Met Lys Ser Gln Ser Thr Val
 245 250 255
 Gly Ala Gly Asp Ser Met Val Gly Ala Met Val Leu Lys Leu Ala Gln
 260 265 270
 Gly Ala Ser Leu Leu Glu Met Ala Arg Tyr Gly Val Ala Ala Gly Ser
 275 280 285
 Ala Ala Thr Ile Asn Gln Gly Thr Arg Leu Cys Ser Leu Ala Asp Thr
 290 295 300
 Gln Lys Ile Val Asp Tyr Leu Glu Arg Ser
 305 310 315

<210> 9413

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 9413

Gly Asp Val Val Met Ser Thr Pro Arg Lys Ile Leu Ala Ala Ile Phe
 1 5 10 15
 Asp Met Asp Gly Leu Leu Ile Asp Ser Glu Pro Leu Trp Asp Arg Ala
 20 25 30
 Glu Leu Asp Val Met Ala Ser Leu Gly Val Asp Ile Ser Arg Arg Asn
 35 40 45
 Glu Leu Pro Asp Thr Leu Gly Leu Arg Ile Asp Met Val Val Asp Leu
 50 55 60
 Trp Tyr Ala His Gln Pro Trp Val Gly Pro Asp Arg Asp Glu Val Thr
 65 70 75 80
 Ala Arg Ile Ile Asn Arg Ala Ile Ser Leu Val Glu Glu Tyr Lys Pro
 85 90 95
 Leu Leu Pro Gly Val Arg Asp Ala Ile Ala Leu Cys Lys Ala Gln Gly
 100 105 110
 Leu Lys Val Gly Leu Ala Ser Ala Ser Pro Leu His Met Leu Glu Lys
 115 120 125
 Val Leu Thr Met Phe Gly Leu Arg Asp Ser Phe Asp Ala Leu Ala Ser
 130 135 140
 Ala Glu Lys Leu Pro Tyr Ser Lys Pro His Pro Gln Val Tyr Met Asp
 145 150 155 160
 Cys Ala Ala Lys Leu Gly Leu Asp Pro Leu Thr Cys Val Ala Leu Glu
 165 170 175
 Asp Ser Val Asn Gly Met Val Ala Ser Lys Ala Ala Arg Met Arg Ser
 180 185 190
 Ile Val Val Pro Ala Glu Glu Gly Arg His Asp Pro Arg Phe Ala Leu
 195 200 205
 Ala Asp Val Arg Leu Thr Ser Leu Glu Glu Leu Thr Ala Arg His Leu

210
Arg Gly Glu
225

215

220

<210> 9414
<211> 312
<212> PRT
<213> Enterobacter cloacae

<400> 9414
Ile Ala Val Lys Gln Tyr Thr Gln Asn Cys Asp Pro Cys Arg Phe Pro
1 5 10 15
Asp Lys Gly Leu Val Leu Thr Asp His Thr Phe Cys Leu Val Leu His
20 25 30
Arg Glu Gly Val Met Ala Leu Gln Gln Glu Ile Ile Gln Ala Leu Gly
35 40 45
Ala Lys Pro Ala Ile Asp Ala Asn Glu Glu Ile Arg Arg Ser Val Asp
50 55 60
Phe Leu Lys Ala Tyr Leu Ser Ala His Pro Phe Leu Lys Thr Leu Val
65 70 75 80
Leu Gly Ile Ser Gly Gly Gln Asp Ser Thr Leu Ala Gly Lys Leu Ser
85 90 95
Gln Met Ala Ile Ser Glu Leu Arg Asp Glu Thr Gly Asp Thr Ala Leu
100 105 110
Gln Phe Ile Ala Val Arg Leu Pro Tyr Gly Val Gln Ala Asp Glu Gln
115 120 125
Asp Cys Gln Asp Ala Ile Ala Phe Ile Gln Pro Asp Arg Val Leu Thr
130 135 140
Val Asn Ile Lys Gly Ser Val Leu Ala Ser Glu Gln Ala Leu Arg Glu
145 150 155 160
Ala Gly Ile Glu Leu Ser Asp Phe Val Arg Gly Asn Glu Lys Ala Arg
165 170 175
Glu Arg Met Lys Ala Gln Tyr Ser Ile Ala Gly Met Thr Lys Gly Val
180 185 190
Val Val Gly Thr Asp His Ala Ala Glu Ala Ile Thr Gly Phe Phe Thr
195 200 205
Lys Tyr Gly Asp Gly Gly Thr Asp Ile Asn Pro Leu Phe Arg Leu Asn
210 215 220
Lys Arg Gln Gly Lys Gln Leu Leu Ala Ala Leu Gly Cys Pro Glu His
225 230 235 240
Leu Tyr Lys Lys Ala Pro Thr Ala Asp Leu Glu Asp Asp Arg Pro Ser
245 250 255
Leu Pro Asp Glu Ala Ala Leu Gly Val Thr Tyr Asp Asn Ile Asp Asp
260 265 270
Tyr Leu Glu Gly Lys Thr Leu Asp Glu Gly Thr Ala Asn Ile Ile Glu
275 280 285
Gly Trp Tyr Leu Lys Thr Glu His Lys Arg Arg Pro Pro Ile Thr Val
290 295 300
Phe Asp Asp Phe Trp Lys Lys
305 310

<210> 9415
<211> 381
<212> PRT
<213> Enterobacter cloacae

<400> 9415
Val Gly Thr Pro Ala Arg Arg Gly Val Asp Leu Ala Ala Ala Cys Pro
1 5 10 15
Pro Gly Ala Ala Pro Arg Val Arg Ala Val Cys Arg Gly Ala Val Ala
20 25 30

Gly His Arg Arg Pro Val Arg Cys Gly Ala Leu Glu Pro Tyr Ala Leu
 35 40 45
 Gly Pro Pro Val Asp Ala Pro Gly Ala Ala Thr Gly Leu Ala Pro Ala
 50 55 60
 Arg Ser Pro Ala Tyr Pro His Cys Gln Asn Ala Gly Leu Ala Ala Gly
 65 70 75 80
 Glu Asn Phe Leu Ala Ser Glu Met Pro Ile Asp Gly Ser Ser Gly Pro
 85 90 95
 Ala Gly Leu Cys His Arg Leu Phe Arg Glu His Gly Pro Val His Ala
 100 105 110
 Tyr Pro Leu Ala Gly Gly Gly Thr Phe His His Pro Asp Asp Gly Gly
 115 120 125
 Gly Arg Pro Gln Gln Arg Arg Gln His Ser Asp Pro Arg Gln Pro Gly
 130 135 140
 Ala Gly Ser Val Val Val Asp Gln Gln Arg Ile Cys Pro Cys Arg Ala
 145 150 155 160
 Ala Leu Pro Ala Arg Gly Pro Ser Gln Thr Arg Ile Thr Leu Met Leu
 165 170 175
 Thr Val Lys Asn Leu Thr Ile Ala Pro Leu Leu His Glu Val Asn Phe
 180 185 190
 Arg Val Pro Ala Gly Glu Ile Val Thr Leu Met Gly Pro Ser Gly Ser
 195 200 205
 Gly Lys Ser Thr Leu Phe Ala Trp Met Val Gly Ala Leu Ser Ala Asp
 210 215 220
 Phe Lys Ala His Gly Glu Leu Trp Leu Asn Asp Arg Arg Cys Asp Met
 225 230 235 240
 Leu Pro Val Glu Thr Arg Gly Ile Gly Ile Leu Phe Gln Asp Ala Leu
 245 250 255
 Leu Phe Asp Ala Phe Ser Val Gly Gln Asn Leu Met Leu Ala Leu Pro
 260 265 270
 Ala His Ile Val Gly Arg Ala Arg Asn Ala Val Glu Gln Ala Leu
 275 280 285
 Glu Thr Ala Gly Leu Ala Asn His Tyr Thr Ser Asp Pro Ala Thr Leu
 290 295 300
 Ser Gly Gly Glu Arg Ala Arg Val Ser Leu Leu Arg Ala Leu Leu Ala
 305 310 315 320
 Gln Pro Gln Ala Leu Leu Asp Glu Pro Phe Ser Arg Leu Asp Lys
 325 330 335
 Thr Leu Arg Ala Ser Phe Arg Ala Trp Val Phe Glu Val Thr Arg Gln
 340 345 350
 Arg Arg Ile Pro Val Val Leu Val Thr His Asp Glu Asp Asp Ile Pro
 355 360 365
 Pro Gly Gly Glu Val Ile Glu Ile Ser Arg Trp Gln
 370 375 380

<210> 9416

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 9416

Arg Pro Ala Leu Tyr Pro Ala Pro Arg Ser Ala Arg Pro Asp Ala Gly
 1 5 10 15
 Cys Trp His Gln Tyr Lys Met Arg Ser Gly Arg Ser Ala Arg Pro Ala
 20 25 30
 Ser Leu Val Ala Ile Ala Glu Pro Gly Ser Asn Ala Pro Cys Ala Ala
 35 40 45
 Pro Asp Ser Arg Gln Thr Ala Pro Pro Ala Arg Lys Asp Ala Ala Tyr
 50 55 60
 Ala Pro Thr Ser Glu Trp Gly Ser Ala Pro Arg Arg Ser Val Phe Ser
 65 70 75 80

```
<210> 9417
<211> 622
<212> PRT
<213> Enterobacter cloacae
```

Gly 1	Glu	Tyr	Met	Arg 5	Thr	Leu	Trp	Arg	Ile 10	Ile	Ala	Gly	Phe	Phe 15	Lys
Trp	Thr	Trp	Arg 20	Leu	Leu	Asn	Phe	Val 25	Arg	Asn	Leu	Val	Met 30	Asn	Ile
Phe	Phe	Ile 35	Leu	Leu	Val	Leu	Val 40	Cys	Ala	Gly	Ile	Trp 45	Met	His	Ile
Ser	Asn 50	Ala	Asn	Gln	Ser	Gln 55	His	Ser	Thr	Arg	Gly 60	Ala	Leu	Leu	Leu
Asp 65	Ile	Thr	Gly	Val	Ile 70	Val	Asp	Lys	Pro	Ser 75	Thr	Ser	Asn	Arg	Leu 80
Gly	Val	Ile	Gly	Arg 85	Gln	Leu	Phe	Gly	Ala 90	Thr	Ser	Asp	Arg	Leu 95	Gln
Glu	Asn	Ser	Leu 100	Phe	Asp	Ile	Val	Asp 105	Thr	Ile	Arg	Gln	Ala	Lys	Asp
Asp	Arg	Asn 115	Ile	Thr	Gly	Ile	Val 120	Leu	Asp	Leu	Lys	Asp 125	Phe	Ala	Gly
Ala	Asp 130	Gln	Pro	Ser	Met	Gln 135	Tyr	Ile	Gly	Lys	Ala 140	Leu	Arg	Glu	Phe
Arg 145	Asp	Ser	Gly	Lys	Pro 150	Val	Ile	Ala	Ile	Gly 155	Asp	Ser	Tyr	Thr	Gln 160
Gly	Gln	Tyr	Tyr	Leu 165	Ala	Ser	Phe	Ala	Asn 170	Lys	Ile	Trp	Leu	Ser 175	Pro
Gln	Gly	Thr	Val 180	Asp	Leu	His	Gly	Phe 185	Ala	Thr	Asn	Gly	Leu 190	Tyr	Tyr
Lys	Ser	Leu 195	Leu	Asp	Lys	Leu	Lys 200	Val	Thr	Thr	His	Val 205	Phe	Arg	Val
Gly	Thr 210	Tyr	Lys	Ser	Ala	Val 215	Glu	Pro	Phe	Ile	Arg 220	Asp	Asp	Met	Ser
Pro 225	Ala	Ala	Arg	Glu	Ala 230	Asp	Ser	Arg	Trp	Ile 235	Gly	Glu	Leu	Trp	Gln 240
Asn	Tyr	Leu	Gly	Thr 245	Ile	Ala	Ala	Asn	Arg 250	Gln	Ile	Thr	Ala	Glu 255	Gln
Val	Phe	Pro	Gly 260	Ala	Arg	Gly	Val	Leu 265	Asp	Gly	Leu	Arg	Lys 270	Val	Asp
Gly	Asp	Thr	Ala 275	Lys	Tyr	Ala	Leu	Asp 280	Asn	Lys	Leu	Val	Asp 285	Gln	Leu
Gly	Ser 290	Ser	Ala	Glu	Ile	Glu 295	Lys	Ala	Leu	Thr	Lys 300	Gln	Phe	Gly	Trp
Ser 305	Lys	Glu	Asp	Lys	Asn 310	Tyr	Ser	Ala	Ile	Ser 315	Met	Tyr	Asp	Tyr	Ala 320
Ala	Lys	Lys	Ser	Asp 325	Asp	Ser	Gly	Asp	Ser 330	Ile	Ala	Val	Val	Phe 335	Ala
Asn	Gly	Ala	Ile 340	Met	Asp	Gly	Glu	Glu 345	Thr	Pro	Gly	Asn	Val 350	Gly	Gly
Asp	Thr	Thr	Ala 355	Ser	Gln	Ile	Arg	Asp 360	Ala	Arg	Leu	Asp	Pro	Lys	Val
Lys	Ala 370	Ile	Val	Leu	Arg	Val 375	Asn	Ser	Pro	Gly	Gly 380	Ser	Val	Ser	Ala
Ser 385	Glu	Val	Ile	Arg	Ala 390	Glu	Leu	Ala	Ala	Ala 395	Arg	Ala	Gly	Lys	400
Pro	Val	Val	Val	Ser 405	Met	Gly	Gly	Met	Ala 410	Ala	Ser	Gly	Gly	Tyr 415	Trp

```

Ile Ser Thr Pro Ala Asn Tyr Ile Val Ala Asn Pro Ser Thr Leu Thr
      420      425      430
Gly Ser Ile Gly Ile Phe Gly Val Ile Asn Thr Val Glu Asn Ser Leu
      435      440      445
Asp Tyr Leu Gly Val His Thr Asp Gly Val Ser Thr Ser Pro Leu Ala
      450      455      460
Asp Val Ser Val Thr Lys Ser Leu Pro Pro Glu Val Ser Glu Met Met
      465      470      475      480
Gln Leu Ser Ile Glu Ser Gly Tyr Lys Arg Phe Ile Thr Leu Val Ala
      485      490      495
Asp Ser Arg Lys Lys Thr Pro Asp Gln Ile Asp Gln Ile Ala Gln Gly
      500      505      510
His Val Trp Thr Gly Gln Asp Ala Lys Ser Asn Gly Leu Val Asp Ser
      515      520      525
Leu Gly Asp Phe Asp Asp Ala Val Lys Lys Ala Ala Glu Leu Ala Lys
      530      535      540
Leu Lys Gln Trp His Val Asp Tyr Tyr Gln Asp Glu Pro Thr Phe Phe
      545      550      555      560
Asp Met Val Met Asp Ser Met Ser Gly Ser Val Arg Ala Met Leu Pro
      565      570      575
Asp Ala Leu Gln Ala Tyr Leu Pro Ala Pro Val Ala Thr Ala Ala Lys
      580      585      590
Ala Met Lys Ala Glu Ser Asp Lys Leu Ala Ala Phe Asn Asp Pro Gln
      595      600      605
Ser Arg Tyr Ala Phe Cys Leu Thr Cys Ala Asn Val Arg
      610      615      620

```

<210> 9418

<211> 525

<212> PRT

<213> Enterobacter cloacae

<400> 9418

```

Pro Met Ser Gln Gln Val Val Ile Phe Asp Thr Thr Leu Arg Asp Gly
1      5      10      15
Glu Gln Ala Leu Gln Ala Ser Leu Ser Val Lys Glu Lys Leu Gln Ile
      20      25      30
Ala Leu Ala Leu Glu Arg Met Gly Val Asp Val Met Glu Val Gly Phe
      35      40      45
Pro Val Ser Ser Pro Gly Asp Phe Glu Ser Val Gln Thr Ile Ala Arg
      50      55      60
Thr Ile Lys Asn Ser Arg Val Cys Gly Leu Ala Arg Cys Val Glu Lys
      65      70      75      80
Asp Ile Asp Val Ala Ala Glu Ser Leu Lys Val Ala Glu Ala Phe Arg
      85      90      95
Ile His Thr Phe Ile Ala Thr Ser Pro Met His Ile Ala Thr Lys Leu
      100      105      110
Arg Ser Thr Leu Asp Glu Val Ile Glu Arg Ala Val Tyr Met Val Lys
      115      120      125
Arg Ala Arg Asn Tyr Thr Asp Asp Val Glu Phe Ser Cys Glu Asp Ala
      130      135      140
Gly Arg Thr Pro Ile Asp Asp Leu Ala Arg Val Val Glu Ala Ala Ile
      145      150      155      160
Asn Ala Gly Ala Arg Thr Ile Asn Ile Pro Asp Thr Val Gly Tyr Thr
      165      170      175
Met Pro Phe Glu Phe Ser Asn Ile Ile Thr Gly Leu Tyr Asp Arg Val
      180      185      190
Pro Asn Ile Asp Lys Ala Ile Ile Ser Val His Thr His Asp Asp Leu
      195      200      205
Gly Leu Ala Val Gly Asn Ala Ile Ala Ala Val His Ala Gly Ala Arg
      210      215      220

```

Gln Val Glu Gly Ala Met Asn Gly Ile Gly Glu Arg Ala Gly Asn Cys
 225 230 235 240
 Ser Leu Glu Glu Val Ile Met Ala Ile Lys Val Arg Lys Asp Ile Met
 245 250 255
 Asn Val His Thr Arg Ile Asn His Asn Glu Ile Trp Arg Thr Ser Gln
 260 265 270
 Thr Val Ser Gln Ile Cys Asn Met Pro Ile Pro Ala Asn Lys Ala Ile
 275 280 285
 Val Gly Ala Gly Ala Phe Ala His Ser Ser Gly Ile His Gln Asp Gly
 290 295 300
 Val Leu Lys Asn Arg Glu Asn Tyr Glu Ile Met Thr Pro Glu Ser Ile
 305 310 315 320
 Gly Leu Asn Gln Val Gln Leu Asn Leu Thr Ser Arg Ser Gly Arg Ala
 325 330 335
 Ala Val Lys His Arg Met Glu Glu Met Gly Tyr Lys Asp Ser Asp Tyr
 340 345 350
 Asn Met Asp Gln Leu Tyr Asp Ala Phe Leu Lys Leu Ala Asp Lys Lys
 355 360 365
 Gly Gln Val Phe Asp Tyr Asp Leu Glu Ala Leu Ala Phe Ile Asn Lys
 370 375 380
 Gln Gln Glu Glu Pro Glu His Phe Arg Leu Asp Tyr Phe Thr Val Gln
 385 390 395 400
 Ser Gly Ser Ser Asp Ile Ala Thr Ala Ser Val Lys Leu Ala Cys Gly
 405 410 415
 Asp Glu Ile Lys Ala Glu Ala Ala Asn Gly Asn Gly Pro Val Asp Ala
 420 425 430
 Ile Tyr Gln Ala Ile Asn Arg Val Thr Glu Tyr Asp Val Glu Leu Val
 435 440 445
 Lys Tyr Asp Leu Thr Ala Lys Gly His Gly Lys Asp Ala Leu Gly Gln
 450 455 460
 Val Asp Ile Val Val Asn Tyr Asn Gly Arg Arg Phe His Gly Val Gly
 465 470 475 480
 Leu Ala Thr Asp Ile Val Glu Ser Ser Ala Lys Ala Met Val His Val
 485 490 495
 Leu Asn Asn Ile Trp Arg Ala Ala Glu Val Glu Lys Glu Leu Gln Arg
 500 505 510
 Lys Ala Gln Asn Lys Glu Asn Asn Lys Glu Thr Val
 515 520 525

<210> 9419

<211> 507

<212> PRT

<213> Enterobacter cloacae

<400> 9419

His Ile Lys Asp Thr Ile Met Thr Ile Phe Asn Asn Tyr Glu Val Trp
 1 5 10 15
 Phe Val Ile Gly Ser Gln His Leu Tyr Gly Pro Glu Ala Leu Gln Gln
 20 25 30
 Val Thr Lys His Ala Glu His Val Asn Ala Leu Asn Ala Glu Ala
 35 40 45
 Lys Leu Pro Cys Lys Leu Val Leu Lys Pro Leu Gly Thr Thr Pro Asp
 50 55 60
 Glu Ile Thr Asn Ile Cys Arg Asp Ala Asn Tyr Asp Asp Lys Cys Ala
 65 70 75 80
 Gly Leu Val Val Trp Leu His Thr Phe Ser Pro Ala Lys Met Trp Ile
 85 90 95
 Asn Gly Leu Ala Ile Leu Asn Lys Pro Leu Leu Gln Phe His Thr Gln
 100 105 110
 Phe Asn Ala Ser Leu Pro Trp Asp Ser Ile Asp Met Asp Phe Met Asn
 115 120 125

Leu Asn Gln Thr Ala His Gly Gly Arg Glu Phe Gly Phe Ile Gly Ala
 130 135 140
 Arg Met Arg Gln Gln His Ala Val Val Thr Gly His Trp Gln Asp Gly
 145 150 155 160
 Gln Ala Gln Lys Arg Ile Gly Ser Trp Met Arg Gln Ala Val Ser Lys
 165 170 175
 Gln Asp Thr Arg His Leu Lys Val Val Arg Phe Gly Asp Asn Met Arg
 180 185 190
 Glu Val Ala Val Thr Asp Gly Asp Lys Val Ala Ala Gln Ile Lys Phe
 195 200 205
 Gly Phe Ser Val Asn Thr Trp Ala Val Gly Asp Leu Val Gln Val Val
 210 215 220
 Asn Asp Ile Ser Asp Gly Asp Val Asn Ala Leu Val Asp Glu Tyr Glu
 225 230 235 240
 Ser Ser Tyr Arg Leu Thr Pro Ala Ala Gln Ile Asn Gly Asp Lys Arg
 245 250 255
 Gln Asn Val Leu Asp Ala Ala Arg Ile Glu Leu Gly Met Lys Arg Phe
 260 265 270
 Leu Glu Gln Gly Gly Phe His Ala Phe Thr Thr Thr Phe Glu Asp Leu
 275 280 285
 His Gly Leu Lys Gln Leu Pro Gly Leu Ala Val Gln Arg Leu Met Gln
 290 295 300
 Gln Gly Tyr Gly Phe Ala Gly Glu Gly Asp Trp Lys Thr Ala Ala Leu
 305 310 315 320
 Leu Arg Ile Met Lys Val Met Ser Thr Gly Leu Gln Gly Gly Thr Ser
 325 330 335
 Phe Met Glu Asp Tyr Thr Tyr His Phe Glu Asn Gly Asn Asp Leu Val
 340 345 350
 Leu Gly Ser His Met Leu Glu Val Cys Pro Ser Ile Ala Val Glu Glu
 355 360 365
 Lys Pro Ile Leu Asp Val Gln Tyr Leu Gly Ile Gly Gly Lys Ala Asp
 370 375 380
 Pro Ala Arg Leu Ile Phe Asn Thr Arg Thr Gly Pro Ala Ile Asn Ala
 385 390 395 400
 Ser Leu Ile Asp Leu Gly Asp Arg Phe Arg Leu Leu Val Asn Cys Val
 405 410 415
 Asp Ala Val Glu Thr Pro His Ser Leu Pro Lys Leu Pro Val Ala Asn
 420 425 430
 Ala Leu Trp Lys Ala Gln Pro Asp Leu Pro Thr Ala Ser Glu Ala Trp
 435 440 445
 Ile Leu Ala Gly Gly Ala His His Thr Val Phe Ser His Ala Leu Asp
 450 455 460
 Leu Asn Asp Met Arg Gln Phe Ala Glu Leu His Asp Ile Glu Leu Thr
 465 470 475 480
 Val Ile Asp Asn Asp Thr Arg Leu Pro Ala Phe Lys Asp Ala Leu Arg
 485 490 495
 Trp Asn Glu Val Tyr Tyr Gly Ser Lys Arg
 500 505

<210> 9420

<211> 973

<212> PRT

<213> Enterobacter cloacae

<400> 9420

Ser Arg Thr Thr Met Pro Phe Thr Leu Gly Gln Arg Trp Ile Ser Asp
 1 5 10 15
 Thr Glu Ser Glu Leu Gly Leu Gly Thr Val Val Ala Val Asp Ala Arg
 20 25 30
 Met Val Thr Phe Leu Phe Pro Ala Thr Gly Glu Asn Arg Leu Tyr Ala
 35 40 45

Thr	Asp	Val	Pro	Ser	Arg	Met	Gly	Ala	Leu	Thr	Val	Asn	Pro	Gly	Asp	Thr
50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130
Val	Thr	Ser	His	Glu	Gly	Tyr	Ile	Gly	Thr	Arg	Leu	Asp	Val	Lys	Asp	Glu
Glu	Asn	Gly	Leu	Leu	Ala	Tyr	Ile	Gly	Thr	Arg	Leu	Asp	Thr	Asp	Glu	Thr
Thr	Asn	Val	Ile	Leu	Arg	Glu	Val	Leu	Leu	Asp	Ser	Lys	Leu	Val	Phe	Thr
Ser	Lys	Pro	Gln	Asp	Arg	Leu	Phe	Ala	Gly	Gln	Ile	Asp	Arg	Met	Asp	Thr
Arg	Phe	Ser	Leu	Arg	Tyr	Arg	Ala	Arg	Lys	Phe	Gln	Ser	Glu	Gln	Tyr	Thr
Arg	Met	Pro	Trp	Ser	Gly	Leu	Arg	Gly	Gln	Arg	Thr	Ser	Leu	Ile	Pro	Thr
His	Gln	Leu	Asn	Ile	Ala	His	Asp	Val	Gly	Arg	Arg	His	Ala	Pro	Arg	Thr
Val	Leu	Leu	Ala	Asp	Glu	Val	Gly	Leu	Gly	Lys	Thr	Ile	Glu	Ala	Gly	Thr
Met	Ile	Leu	His	Gln	Gln	Leu	Leu	Ser	Gly	Ala	Ala	Glu	Arg	Val	Leu	Thr
Ile	Val	Val	Pro	Glu	Thr	Leu	Gln	His	Gln	Trp	Leu	Val	Glu	Met	Leu	Thr
Arg	Arg	Phe	Asn	Leu	Arg	Phe	Ser	Leu	Phe	Asp	Asp	Glu	Arg	Tyr	Ala	Thr
Glu	Ala	Gln	His	Asp	Ala	Asp	Asn	Pro	Phe	Glu	Thr	Glu	Gln	Leu	Val	Thr
Ile	Cys	Ser	Leu	Asp	Phe	Val	Arg	Arg	Ser	Lys	Gln	Arg	Leu	Glu	His	Thr
Leu	Cys	Asp	Ala	Glu	Trp	Asp	Leu	Met	Val	Val	Asp	Glu	Ala	His	His	Thr
Leu	Val	Trp	Ser	Glu	Asp	Ala	Pro	Ser	Arg	Glu	Tyr	Met	Ala	Ile	Glu	Thr
Gln	Leu	Ala	Glu	Arg	Val	Pro	Gly	Val	Leu	Leu	Leu	Thr	Ala	Thr	Pro	Thr
Glu	Gln	Leu	Gly	Leu	Glu	Ser	His	Phe	Ala	Arg	Leu	Arg	Leu	Leu	Asp	Thr
Pro	Asn	Arg	Phe	His	Asp	Phe	Glu	Gln	Phe	Val	Glu	Glu	Gln	Lys	Asn	Thr
Tyr	Arg	Pro	Val	Ala	Asp	Ala	Val	Ala	Leu	Leu	Leu	Ala	Gly	Asn	Arg	Thr
Leu	Ser	Asn	Asp	Glu	Leu	Asn	Thr	Leu	Ser	Asp	Leu	Ile	Gly	Glu	Gln	Thr
Asp	Ile	Glu	Pro	Leu	Leu	Gln	Ala	Ala	Asn	Ser	Asp	Ser	Asp	Asn	Ala	Thr
Gly	Ser	Ala	Arg	Lys	Glu	Leu	Ile	Asp	Met	Leu	Met	Asp	Arg	His	Gly	Thr
Thr	Ser	Arg	Val	Leu	Phe	Arg	Asn	Thr	Arg	Asn	Gly	Val	Lys	Gly	Phe	Thr
Pro	Lys	Arg	Glu	Leu	His	Thr	Ile	Lys	Leu	Pro	Leu	Pro	Thr	Gln	Tyr	Thr
Gln	Thr	Ala	Ile	Lys	Val	Ser	Gly	Ile	Met	Gly	Thr	Arg	Lys	Ser	Ala	Thr
Glu	Asp	Arg	Ala	Arg	Asp	Met	Leu	Tyr	Pro	Glu	Gln	Ile	Tyr	Gln	Glu	Thr
Phe	Glu	Gly	Asp	Thr	Gly	Thr	Trp	Trp	Asn	Phe	Asp	Pro	Arg	Val	Glu	Thr
Trp	Leu	Met	Gly	Tyr	Leu	Thr	Ala	His	Arg	Ser	Arg	Lys	Val	Leu	Val	Thr
Ile	Cys	Ala	Lys	Ala	Ala	Thr	Ala	Leu	Gln	Leu	Glu	Gln	Val	Leu	Arg	Thr
Glu	Arg	Glu	Gly	Ile	Arg	Ala	Ala	Val	Phe	His	Glu	Gly	Met	Ser	Ile	Thr

530						535						540					
Ile	Glu	Arg	Asp	Arg	Ala	Ala	Ala	Trp	Phe	Ser	Glu	Glu	Asp	Ser	Gly		
545					550					555					560		
Ala	Gln	Val	Leu	Leu	Cys	Ser	Glu	Ile	Gly	Ser	Glu	Gly	Arg	Asn	Phe		
				565					570					575			
Gln	Phe	Ala	Ser	Asn	Leu	Val	Met	Phe	Asp	Leu	Pro	Phe	Asn	Pro	Asp		
			580					585					590				
Leu	Leu	Glu	Gln	Arg	Ile	Gly	Arg	Leu	Asp	Arg	Ile	Gly	Gln	Ala	His		
		595				600						605					
Asp	Ile	Gln	Ile	His	Val	Pro	Tyr	Leu	Glu	Lys	Thr	Ala	Gln	Ser	Val		
	610					615					620						
Leu	Val	Arg	Trp	Tyr	His	Glu	Gly	Leu	Asp	Ala	Phe	Glu	His	Thr	Cys		
625					630					635					640		
Pro	Thr	Gly	Arg	Thr	Ile	Tyr	Asp	Gln	Val	His	Ala	Asp	Leu	Ile	Gly		
				645					650					655			
Tyr	Leu	Ala	Ala	Pro	Glu	Asn	Thr	Glu	Gly	Phe	Asp	Glu	Leu	Ile	Lys		
			660				665						670				
Ser	Cys	Arg	Glu	Lys	His	Asp	Ala	Leu	Lys	Ala	Gln	Leu	Glu	Gln	Gly		
		675					680					685					
Arg	Asp	Arg	Leu	Leu	Glu	Ile	His	Ser	Asn	Gly	Gly	Glu	Lys	Ala	Gln		
	690					695					700						
Gln	Leu	Ala	Glu	Ser	Ile	Glu	Glu	Gln	Asp	Asp	Asp	Thr	Ser	Leu	Ile		
705					710					715					720		
Ser	Phe	Ser	Met	Asn	Leu	Phe	Asp	Ile	Val	Gly	Ile	Asn	Gln	Asp	Asp		
				725					730					735			
Arg	Gly	Glu	Asn	Met	Ile	Val	Leu	Thr	Pro	Ser	Asp	His	Met	Leu	Val		
			740					745					750				
Pro	Asp	Phe	Pro	Gly	Leu	Pro	Glu	Asp	Gly	Cys	Thr	Ile	Thr	Phe	Glu		
		755				760						765					
Arg	Asp	Val	Ala	Leu	Ser	Arg	Glu	Asp	Ala	Gln	Phe	Ile	Thr	Trp	Glu		
	770					775						780					
His	Pro	Leu	Ile	Arg	Asn	Gly	Leu	Asp	Leu	Ile	Leu	Ser	Gly	Asp	Thr		
785					790					795				800			
Gly	Ser	Ser	Thr	Ile	Ser	Leu	Leu	Lys	Asn	Lys	Ala	Leu	Pro	Val	Gly		
				805					810					815			
Thr	Leu	Leu	Val	Glu	Leu	Ile	Tyr	Val	Val	Glu	Ala	Gln	Ala	Pro	Lys		
			820					825						830			
Gln	Leu	Gln	Leu	Asn	Arg	Phe	Leu	Pro	Pro	Thr	Pro	Val	Arg	Leu	Leu		
			835				840					845					
Leu	Asp	Lys	Asn	Gly	Thr	Asn	Leu	Ala	Gly	Gln	Val	Glu	Phe	Glu	Ser		
	850					855					860						
Phe	Asn	Arg	Gln	Leu	Ser	Ala	Val	Asn	Arg	His	Thr	Gly	Ser	Lys	Leu		
865					870					875				880			
Val	Asn	Ala	Val	Gln	Gln	Asp	Val	His	Ala	Ile	Leu	Gln	Leu	Gly	Glu		
				885					890					895			
Ala	Gln	Ala	Glu	Lys	Ala	Ala	Arg	Glu	Leu	Ile	Asp	Ala	Ala	Arg	Ser		
			900					905					910				
Glu	Ala	Asp	Glu	Lys	Leu	Ser	Ala	Glu	Leu	Ser	Arg	Leu	Glu	Ala	Leu		
		915					920					925					
Lys	Ala	Val	Asn	Pro	Asn	Ile	Arg	Asp	Asp	Glu	Leu	Ala	Ala	Ile	Glu		
	930					935					940						
Ser	Asn	Arg	Gln	Gln	Val	Leu	Glu	Ser	Leu	Asn	Gln	Ala	Gly	Trp	Arg		
945					950					955				960			
Leu	Asp	Ala	Leu	Arg	Leu	Ile	Val	Val	Thr	His	Gln						
				965					970								

<210> 9421

<211> 167

<212> PRT

<213> Enterobacter cloacae

<220>
 <221>UNSURE
 <222>(157)

<220>
 <221>UNSURE
 <222>(167)

<400> 9421

Ala	Glu	Arg	Lys	Met	Val	Met	Glu	Pro	Tyr	Asn	Pro	Pro	Met	Asp	Pro
1				5					10					15	
Trp	Leu	Val	Ile	Leu	Tyr	Gln	Asp	Glu	His	Ile	Met	Val	Val	Asn	Lys
			20					25					30		
Pro	Ser	Gly	Leu	Leu	Ser	Val	Pro	Gly	Arg	Leu	Glu	Glu	His	Lys	Asp
		35					40					45			
Ser	Val	Met	Thr	Arg	Ile	Gln	Arg	Asp	Tyr	Pro	Gln	Ala	Glu	Ser	Val
		50				55					60				
His	Arg	Leu	Asp	Met	Ala	Thr	Ser	Gly	Val	Ile	Val	Val	Ala	Leu	Asn
65					70					75					80
Lys	Ala	Ala	Glu	Arg	Glu	Leu	Lys	Arg	Gln	Phe	Arg	Glu	Arg	Glu	Pro
				85					90					95	
Lys	Lys	Gln	Tyr	Val	Ala	Arg	Val	Trp	Gly	His	Pro	Ala	Gln	Ala	Glu
			100					105					110		
Gly	Leu	Val	Asp	Leu	Pro	Leu	Ile	Cys	Asp	Trp	Pro	Asn	Arg	Pro	Lys
		115					120					125			
Gln	Lys	Val	Cys	Tyr	Glu	Thr	Gly	Lys	Ala	Ala	Gln	Thr	Glu	Tyr	Glu
		130				135					140				
Val	Leu	Glu	Tyr	Ala	Arg	His	Asn	Val	Phe	Ile	Thr	Xaa	Arg	Gln	Ile
145					150					155					160
Arg	His	Asn	Leu	Thr	Gln	Xaa									
					165										

<210> 9422
 <211> 471
 <212> PRT
 <213> Enterobacter cloacae

<400> 9422

Arg	Gly	Val	Ile	Met	Ala	Lys	Thr	Leu	Tyr	Glu	Lys	Leu	Phe	Asp	Ala
1				5					10					15	
His	Val	Val	Tyr	Glu	Ala	Pro	Asn	Glu	Thr	Pro	Leu	Leu	Tyr	Ile	Asp
			20					25					30		
Arg	His	Leu	Val	His	Glu	Val	Thr	Ser	Pro	Gln	Ala	Phe	Asp	Gly	Leu
		35					40					45			
Arg	Ala	His	Lys	Arg	Pro	Val	Arg	Gln	Pro	Gly	Lys	Thr	Phe	Ala	Thr
		50				55					60				
Met	Asp	His	Asn	Val	Ser	Thr	Gln	Thr	Lys	Asp	Ile	Asn	Ala	Ser	Gly
65					70					75					80
Glu	Met	Ala	Arg	Ile	Gln	Met	Gln	Glu	Leu	Ile	Lys	Asn	Cys	Asn	Glu
				85					90					95	
Phe	Gly	Val	Glu	Leu	Tyr	Asp	Leu	Asn	His	Pro	Tyr	Gln	Gly	Ile	Val
			100					105					110		
His	Val	Met	Gly	Pro	Glu	Gln	Gly	Ile	Thr	Leu	Pro	Gly	Met	Thr	Ile
		115					120					125			
Val	Cys	Gly	Asp	Ser	His	Thr	Ala	Thr	His	Gly	Ala	Phe	Gly	Ala	Leu
		130				135					140				
Ala	Phe	Gly	Ile	Gly	Thr	Ser	Glu	Val	Glu	His	Val	Leu	Ala	Thr	Gln
145					150					155					160
Thr	Leu	Lys	Gln	Gly	Arg	Ala	Lys	Thr	Met	Lys	Ile	Glu	Val	Lys	Gly
				165					170					175	
Lys	Ala	Ala	Pro	Gly	Ile	Thr	Ala	Lys	Asp	Ile	Val	Leu	Ala	Ile	Ile

```

      180      185      190
Gly Lys Thr Gly Ser Ala Gly Gly Thr Gly His Val Val Glu Phe Cys
      195      200      205
Gly Asp Ala Ile Gln Ala Leu Ser Met Glu Gly Arg Met Thr Leu Cys
      210      215      220
Asn Met Ala Ile Glu Met Gly Ala Lys Ala Gly Leu Val Ala Pro Asp
      225      230      235
Glu Thr Thr Phe Asn Tyr Val Lys Gly Arg Leu His Ala Pro Lys Gly
      245      250      255
Gln Asn Phe Asp Asp Ala Val Ala Tyr Trp Lys Thr Leu Lys Thr Asp
      260      265      270
Glu Gly Ala Ile Phe Asp Thr Val Val Thr Leu Gln Ala Glu Glu Ile
      275      280      285
Ala Pro Gln Val Thr Trp Gly Thr Asn Pro Gly Gln Val Ile Ser Val
      290      295      300
Asn Asp Ser Ile Pro Asp Pro Ala Ser Phe Ala Asp Pro Val Glu Arg
      305      310      315
Ala Ser Ala Glu Lys Ala Leu Ala Tyr Met Gly Leu Lys Pro Gly Val
      325      330      335
Pro Leu Thr Asp Val Ser Ile Asp Lys Val Phe Ile Gly Ser Cys Thr
      340      345      350
Asn Ser Arg Ile Glu Asp Leu Arg Ala Ala Ala Glu Ile Ala Lys Gly
      355      360      365
Arg Lys Val Ala Pro Gly Val Gln Ala Leu Val Val Pro Gly Ser Gly
      370      375      380
Pro Val Lys Ala Gln Ala Glu Ala Glu Gly Leu Asp Lys Ile Phe Ile
      385      390      395
Glu Ala Gly Phe Glu Trp Arg Leu Pro Gly Cys Ser Met Cys Leu Ala
      405      410      415
Met Asn Asn Asp Arg Leu Asn Pro Gly Glu Arg Cys Ala Ser Thr Ser
      420      425      430
Asn Arg Asn Phe Glu Gly Arg Gln Gly Arg Gly Gly Arg Thr His Leu
      435      440      445
Val Ser Pro Ala Met Ala Ala Ala Ala Val Thr Gly His Phe Ala
      450      455      460
Asp Ile Arg Ser Leu Lys
      465      470

```

<210> 9423

<211> 537

<212> PRT

<213> Enterobacter cloacae

<400> 9423

```

Met Ala Thr Arg Arg Gln Pro Leu Ile Pro Gly Trp Leu Val Pro Gly
1      5      10      15
Leu Leu Ala Ala Val Leu Met Val Val Val Ser Leu Gly Ala Phe Leu
20      25      30
Ala Leu Trp Phe Asn Ala Pro Glu Ser Asp Leu Leu Ala Leu Trp His
35      40      45
Asp Ser Tyr Leu Trp His Val Ile Arg Phe Ser Phe Trp Gln Ala Phe
50      55      60
Leu Ser Ala Leu Leu Ser Ala Ile Pro Ala Ile Phe Leu Ala Arg Ala
65      70      75      80
Leu Tyr Arg Arg Arg Phe Pro Gly Arg Leu Ala Leu Leu Arg Leu Cys
85      90      95
Ala Met Thr Leu Ile Leu Pro Val Leu Val Ala Val Phe Gly Ile Leu
100      105      110
Ser Val Tyr Gly Arg Gln Gly Trp Leu Ala Ser Leu Phe Asn Leu Leu
115      120      125
Gly Leu Glu Trp Thr Phe Ser Pro Tyr Gly Leu Lys Gly Ile Leu Leu

```

130 135 140
 Ala His Ile Phe Phe Asn Met Pro Met Ala Thr Arg Leu Phe Leu Gln
 145 150 155 160
 Ala Leu Glu Asn Ile Pro Gly Glu Gln Arg Gln Ile Ala Ala Gln Leu
 165 170 175
 Gly Met Arg Gly Trp Ser Phe Phe Arg Phe Val Glu Trp Pro Trp Leu
 180 185 190
 Arg Arg Gln Ile Ala Pro Val Ala Ala Leu Ile Phe Met Leu Cys Phe
 195 200 205
 Ala Ser Phe Ala Thr Val Leu Ser Leu Gly Gly Gly Pro Gln Ala Thr
 210 215 220
 Thr Ile Glu Leu Ala Ile Tyr Gln Ala Leu Ser Tyr Asp Tyr Asp Pro
 225 230 235 240
 Gly Arg Ala Ala Leu Leu Ala Ile Val Gln Met Val Cys Cys Leu Ala
 245 250 255
 Leu Val Leu Leu Ser Gln Arg Leu Ser Lys Ala Ile Pro Thr Gly Ser
 260 265 270
 Asn Asn Leu Thr Gly Trp Arg Asp Pro Gln Asp Ser Leu His Ser Arg
 275 280 285
 Val Ala Asp Phe Met Leu Ile Ala Leu Ala Leu Leu Leu Leu Pro
 290 295 300
 Pro Leu Leu Ala Val Ile Val Asp Gly Leu Asn Arg Asn Val Leu Ser
 305 310 315 320
 Val Leu Gln Gln Pro Val Leu Trp Gln Ala Thr Trp Thr Ser Leu Arg
 325 330 335
 Ile Ala Leu Ala Ala Gly Leu Leu Cys Val Ile Leu Thr Met Met Leu
 340 345 350
 Leu Trp Ser Ser Arg Glu Leu His Ala Arg His Ala Arg Lys Ala Gly
 355 360 365
 His Ala Leu Glu Leu Thr Gly Met Leu Ile Leu Ala Met Pro Gly Ile
 370 375 380
 Val Leu Ala Thr Gly Phe Phe Leu Leu Phe Asn Ser Thr Ile Gly Leu
 385 390 395 400
 Pro Glu Ser Ala Asp Gly Ile Val Ile Phe Thr Asn Ala Leu Met Ala
 405 410 415
 Ile Pro Tyr Ala Leu Lys Val Leu Glu Asn Pro Met Arg Asp Val Asn
 420 425 430
 Ser Arg Tyr Ser Leu Leu Cys Gln Ser Leu Gly Met Gln Gly Trp Gln
 435 440 445
 Arg Leu Lys Val Val Glu Leu Arg Ala Leu Lys Arg Pro Leu Ala Gln
 450 455 460
 Ala Leu Ala Phe Ala Cys Val Leu Ser Ile Gly Asp Phe Gly Val Val
 465 470 475 480
 Ala Leu Phe Gly Asn Glu Asp Phe Arg Thr Leu Pro Phe Trp Leu Tyr
 485 490 495
 Gln Gln Ile Gly Ser Tyr Arg Ser Gln Asp Gly Ala Val Thr Ala Leu
 500 505 510
 Leu Leu Leu Leu Leu Cys Phe Ala Leu Phe Thr Val Ile Glu Lys Leu
 515 520 525
 Pro Gly Arg Asp Val Lys Thr Asp
 530 535

<210> 9424

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 9424

Arg Glu Gln Gln Gly Asn Arg Val Met Ser Lys Asn Tyr His Ile Ala
 1 5 10 15
 Val Leu Pro Gly Asp Gly Ile Gly Pro Glu Val Met Ala Gln Ala Leu

20 25 30
 Lys Val Leu Glu Ala Val Arg Ser Arg Phe Ala Met Lys Ile Thr Thr
 35 40 45
 Ser His Tyr Asp Val Gly Gly Ile Ala Ile Asp Asn His Gly Thr Pro
 50 55 60
 Leu Pro Lys Gly Thr Val Glu Gly Cys Glu Asn Ala Asp Ala Val Leu
 65 70 75 80
 Phe Gly Ser Val Gly Gly Pro Lys Trp Glu His Leu Pro Pro Ala Glu
 85 90 95
 Gln Pro Glu Arg Gly Ala Leu Leu Pro Leu Arg Lys His Phe Lys Leu
 100 105 110
 Phe Ser Asn Leu Arg Pro Ala Lys Leu Tyr Pro Gly Leu Glu Glu Phe
 115 120 125
 Cys Pro Leu Arg Ala Asp Ile Ala Ala Asn Gly Phe Asp Ile Leu Cys
 130 135 140
 Val Arg Glu Leu Thr Gly Gly Ile Tyr Phe Gly Gln Pro Lys Gly Arg
 145 150 155 160
 Glu Gly Ser Gly Gln His Glu Lys Ala Phe Asp Thr Glu Val Tyr His
 165 170 175
 Arg Phe Glu Ile Glu Arg Ile Ala His Ile Ala Phe Glu Ser Ala Arg
 180 185 190
 Lys Arg Arg Arg Lys Val Thr Ser Ile Asp Lys Ala Asn Val Leu Gln
 195 200 205
 Ser Ser Ile Leu Trp Arg Glu Ile Val Ser Glu Val Ala Lys Gln Tyr
 210 215 220
 Pro Asp Val Ala Leu Ser His Met Tyr Ile Asp Asn Ala Thr Met Gln
 225 230 235 240
 Leu Ile Lys Asp Pro Ser Gln Phe Asp Val Leu Leu Cys Ser Asn Leu
 245 250 255
 Phe Gly Asp Ile Leu Ser Asp Glu Cys Ala Met Ile Thr Gly Ser Met
 260 265 270
 Gly Met Leu Pro Ser Ala Ser Leu Asn Glu Glu Gly Phe Gly Leu Tyr
 275 280 285
 Glu Pro Ala Gly Gly Ser Ala Pro Asp Ile Ala Gly Lys Asn Ile Ala
 290 295 300
 Asn Pro Ile Ala Gln Ile Leu Ser Leu Ala Leu Leu Leu Arg Tyr Ser
 305 310 315 320
 Leu Asp Ala Gly Asp Ala Ala Thr Ala Ile Glu Asn Ala Ile Asn Arg
 325 330 335
 Ala Leu Glu Glu Gly Val Arg Thr Gly Asp Leu Ala Arg Gly Thr Ala
 340 345 350
 Ala Val Ser Thr Asp Glu Met Gly Asp Ile Ile Ala Arg Tyr Val Ala
 355 360 365
 Glu Gly Val
 370

<210> 9425

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 9425

Asn Lys Glu Thr Ile Met Ala Glu Lys Phe Thr Gln His Thr Gly Arg
 1 5 10 15
 Val Val Pro Leu Asp Ala Ala Asn Val Asp Thr Asp Ala Ile Ile Pro
 20 25 30
 Lys Gln Phe Leu Gln Lys Val Thr Arg Thr Gly Phe Gly Ala His Leu
 35 40 45
 Phe Asn Asp Trp Arg Phe Leu Asp Asp Lys Gly Glu Val Pro Asn Pro
 50 55 60
 Glu Phe Val Leu Asn Phe Pro Glu Tyr Lys Gly Ala Ser Ile Leu Leu

65					70					75				80
Ala	Arg	Glu	Asn	Phe	Gly	Cys	Gly	Ser	Ser	Arg	Glu	His	Ala	Pro
				85					90					95
Ala	Leu	Thr	Asp	Tyr	Gly	Phe	Lys	Val	Val	Ile	Ala	Pro	Ser	Phe
			100					105					110	Ala
Asp	Ile	Phe	Tyr	Gly	Asn	Ser	Phe	Asn	Asn	Gln	Leu	Leu	Pro	Val
		115					120					125		Thr
Leu	Ser	Asp	Glu	Gln	Val	Asp	Glu	Leu	Phe	Ala	Leu	Val	Gln	Ala
		130				135					140			Asn
Pro	Gly	Ile	Ser	Phe	Glu	Val	Asp	Leu	Glu	Ala	Glu	Val	Val	Lys
		145			150					155				160
Gly	Asp	Lys	Thr	Tyr	Ser	Phe	Ser	Ile	Asp	Ala	Phe	Arg	Arg	His
			165						170					175
Met	Leu	Asn	Gly	Leu	Asp	Ser	Ile	Gly	Leu	Thr	Leu	Gln	His	Glu
		180						185					190	Glu
Ala	Ile	Ala	Ala	Tyr	Glu	Lys	Lys	Gln	Pro	Ala	Phe	Met	Gly	
		195					200					205		

<210> 9426

<211> 560

<212> PRT

<213> Enterobacter cloacae

<400> 9426

Phe	Phe	Val	Arg	Ser	Ser	Pro	Phe	Met	Pro	Ser	Gly	Arg	Leu	Gln	Gln
1				5					10					15	
Gln	Phe	Ile	Arg	Leu	Trp	Gln	Cys	Cys	Glu	Gly	Gln	Ser	Gln	Glu	Thr
			20					25					30		
Thr	Leu	Asn	Glu	Leu	Ala	Glu	Leu	Leu	Asn	Cys	Ser	Arg	Arg	His	Met
		35					40					45			
Arg	Thr	Leu	Leu	Asn	Thr	Met	Gln	Gln	Gly	Trp	Leu	Asn	Trp	Glu	
		50				55				60					
Ala	Glu	Ala	Gly	Arg	Gly	Lys	Arg	Ser	Arg	Leu	Thr	Phe	Leu	Tyr	Thr
		65			70					75				80	
Gly	Leu	Ala	Leu	Gln	Gln	Gln	Arg	Ala	Glu	Asp	Leu	Leu	Glu	Gln	Asp
				85					90					95	
Arg	Ile	Asp	Gln	Leu	Val	Gln	Leu	Val	Gly	Asp	Lys	Ala	Ala	Val	Arg
		100						105					110		
Gln	Met	Leu	Val	Ser	His	Leu	Gly	Arg	Ser	Phe	Arg	Gln	Gly	Arg	His
		115					120					125			
Ile	Leu	Arg	Val	Leu	Tyr	Arg	Pro	Met	Lys	Asn	Leu	Leu	Pro	Gly	
		130				135					140				
Thr	Ala	Leu	Arg	Arg	Ser	Glu	Thr	His	Met	Ala	Arg	Gln	Ile	Phe	Ser
		145			150					155					160
Gly	Leu	Thr	Arg	Ile	Asn	Glu	Glu	Asn	Gly	Glu	Leu	Glu	Ala	Asp	Ile
			165						170					175	
Ala	His	His	Trp	Gln	Gln	Leu	Ser	Pro	Arg	His	Trp	Arg	Phe	Phe	Leu
		180						185					190		
Arg	Pro	Gly	Ile	His	Phe	His	His	Gly	Arg	Glu	Leu	Glu	Met	Arg	Asp
		195					200					205			
Val	Ile	Asp	Ser	Leu	Glu	Arg	Ala	Arg	Thr	Leu	Pro	Leu	Tyr	Ser	His
		210				215					220				
Ile	Ala	Arg	Ile	His	Ser	Pro	Thr	Ala	Trp	Thr	Leu	Asp	Ile	Glu	Leu
		225			230					235				240	
Ser	Gln	Pro	Asp	Lys	Trp	Leu	Pro	Trp	Leu	Leu	Gly	Tyr	Val	Pro	Ser
			245						250					255	
Met	Ile	Leu	Pro	Ala	Glu	Trp	Arg	Ser	Leu	Asn	Asn	Phe	Ser	Ser	Gln
		260					265					270			
Pro	Ile	Gly	Thr	Gly	Pro	Tyr	Ser	Val	Thr	Arg	Asn	Asn	Ser	Asn	Gln
		275					280					285			
Leu	Lys	Ile	Arg	Ala	Phe	Asp	Asp	Tyr	Phe	Gly	Tyr	Arg	Ala	Leu	Ile

290	295	300
Asp Glu Val Asn Val Trp Val Leu Pro Asp Leu Asn Glu Glu Leu Ser		
305	310	315
Ala Gly Leu Thr Leu Gly Pro Thr Ala Gly Glu Lys Ala Phe Glu		
	325	330
Ser Arg Leu Glu Glu Gly Cys Tyr Tyr Leu Leu Phe Asp Ser Arg Ser		
	340	345
His Arg Gly Ala Asn His Asp Val Arg Arg Trp Ile Ser His Ile Leu		
	355	360
Ala Pro Ala Asn Leu Ile Tyr His Ala Glu Glu Gln Tyr Gln Thr Trp		
	370	375
Trp Phe Pro Ala Tyr Gly Leu Leu Pro Arg Trp His His Ala Gln Pro		
385	390	395
Val Arg Ser Glu Lys Pro Ala Gly Leu Glu Thr Ile Thr Leu Ser Tyr		
	405	410
Tyr Arg Asp His Ile Glu His Arg Phe Ile Ala Arg Ile Met Ser Thr		
	420	425
Leu Leu Ala Ala Glu Gly Val Thr Leu Ala Ile Gln Glu Val Asp Tyr		
	435	440
Asp Glu Trp His Arg Gly Asp Val Ile Ser Asp Ile Trp Leu Asn Ser		
	450	455
Ala Asn Phe Thr Leu Pro Leu Asp Phe Ser Leu Phe Ser His Leu Tyr		
465	470	475
Glu Val Pro Leu Ile Gln His Cys Ile Asn Arg Asp Trp Gln Gln Asp		
	485	490
Ala Ala Arg Trp Arg Ala Gly Glu Met Asp Leu Ala Ala Trp Cys Gln		
	500	505
Glu Leu Leu Ala Gly Gln Thr Ile Val Pro Leu Ile His His Trp Leu		
	515	520
Leu Ile Gln Gly Gln Arg Ser Met Arg Gly Leu Arg Met Asn Thr Leu		
	530	535
Gly Trp Phe Asp Phe Lys Ser Ala Trp Phe Ala Pro Pro Glu Pro		
545	550	555
		560

<210> 9427

<211> 349

<212> PRT

<213> Enterobacter cloacae

<400> 9427

Arg Arg Arg Arg Asp Leu Arg Leu Ser Leu Lys Ile Leu Cys His Ser	
1	5
Thr Leu Arg Cys Lys Val Leu Lys Asn Val Leu Pro Leu Leu Ala Leu	
	20
Phe Ala Leu Pro Val Phe Ala Lys Pro Val Leu Thr Val Tyr Thr Tyr	
	35
Asp Ser Phe Ser Ala Asp Trp Gly Pro Gly Pro Val Val Lys Lys Ala	
	50
Phe Glu Ala Asp Cys Asn Cys Glu Leu Lys Phe Val Ala Leu Glu Asp	
65	70
Gly Val Ser Leu Leu Asn Arg Leu Arg Met Glu Gly Lys Asn Ser Lys	
	85
Ala Asp Val Val Leu Gly Leu Asp Asn Leu Leu Glu Ala Ala Thr	
	100
Gln Thr Arg Leu Phe Ala Lys Ser Gly Val Ala Ala Asp Ala Val Asn	
	115
Val Pro Gly Gly Trp Lys Asn Asp Thr Phe Val Pro Phe Asp Tyr Gly	
	130
Tyr Phe Ala Phe Val Tyr Asp Lys Asn Lys Leu Lys Asn Pro Pro Lys	
145	150
Ser Leu Lys Glu Leu Val Glu Ser Asp Gln Lys Trp Arg Val Ile Tyr	

```
<210> 9428
<211> 307
<212> PRT
<213> Enterobacter cloacae
```

<400> 9428																
Ser	Val	Arg	Trp	Pro	Arg	Arg	Trp	Arg	Leu	Pro	Ala	Cys	Cys	Arg	Leu	
1				5					10					15		
Ala	Ile	Leu	Ala	Leu	Trp	Pro	Ser	Ser	Ala	Thr	Arg	Ile	Ser	Ala	Arg	
			20					25					30			
Cys	Arg	Ser	Gly	Phe	Ile	Ser	Lys	Leu	Ala	Pro	Ile	Val	Ala	Arg	Thr	
		35					40					45				
Ala	Pro	Ser	Arg	Arg	Tyr	Ser	Cys	Cys	Cys	Cys	Ala	Leu	Arg	Tyr	Leu	
	50					55					60					
Pro	Leu	Ser	Lys	Asn	Phe	Arg	Gly	Val	Met	Leu	Lys	Leu	Thr	Asp	Val	
65					70					75					80	
Thr	Trp	Leu	Tyr	Glu	His	Leu	Pro	Met	Arg	Phe	Thr	Leu	Ser	Val	Arg	
				85					90					95		
Gln	Gly	Glu	Arg	Ile	Ala	Val	Leu	Gly	Pro	Ser	Gly	Ala	Gly	Lys	Ser	
			100					105					110			
Thr	Leu	Leu	Asn	Leu	Ile	Ala	Gly	Phe	Leu	Gln	Pro	Ala	Ser	Gly	Ser	
			115				120					125				
Ile	Val	Ile	Asp	Asn	Gly	Glu	Tyr	Thr	Tyr	Ala	Pro	Ala	Lys	Arg		
	130					135					140					
Pro	Val	Ser	Met	Leu	Phe	Gln	Glu	Asn	Asn	Leu	Phe	Asn	His	Leu	Thr	
145					150					155					160	
Val	Trp	Gln	Asn	Ile	Ala	Leu	Gly	Met	Asp	Pro	Gly	Leu	Lys	Leu	Asn	
				165					170					175		
Val	Ala	Gln	Arg	Gln	Thr	Leu	Glu	Ala	Ile	Ala	Glu	Gln	Met	Gly	Leu	
			180					185					190			
Ala	Ala	Phe	Ile	Asn	Arg	Leu	Pro	Gly	Glu	Leu	Ser	Gly	Gly	Gln	Arg	
		195					200					205				
Gln	Arg	Val	Ala	Leu	Ala	Arg	Cys	Leu	Val	Arg	Lys	Gln	Pro	Leu	Leu	
	210					215					220					
Leu	Leu	Asp	Glu	Pro	Phe	Ser	Ala	Leu	Asp	Pro	Ala	Leu	Arg	Gln	Glu	
225					230					235					240	
Met	Leu	Ser	Leu	Val	Glu	Glu	Val	Cys	Glu	Arg	Glu	Gln	Leu	Thr	Met	

245 250 255
 Leu Met Val Ser His Ser Ile Glu Asp Ala Ala Arg Ile Ala Pro Arg
 260 265 270
 Ser Val Val Ile Ala Glu Gly Arg Ile Leu Trp Asp Gly Glu Thr Glu
 275 280 285
 Glu Leu Leu Ser Gly Lys Ala Gly Ala Ser Ser Leu Leu Gly Ile Arg
 290 295 300
 Glu Val
 305

<210> 9429

<211> 590

<212> PRT

<213> Enterobacter cloacae

<400> 9429

Arg Phe Leu Ser Leu Val Ser Asn Val Leu Pro Tyr Leu Phe Phe Gly
 1 5 10 15
 Trp Ser Asn Thr Met Ala Ile Ala Ile Gly Leu Asp Phe Gly Ser Asp
 20 25 30
 Ser Val Arg Ala Leu Ala Val Asp Cys Thr Thr Gly Gln Glu Ile Ala
 35 40 45
 Thr Ser Val Glu Trp Tyr Pro Arg Trp Gln Glu Gly Arg Tyr Cys Asp
 50 55 60
 Ala Pro Asn Asn Gln Phe Arg His His Pro Arg Asp Tyr Ile Glu Ser
 65 70 75 80
 Met Glu Ala Ala Ile Lys Thr Val Leu Ala Glu Leu Thr Asp Ala Gln
 85 90 95
 Arg Ala Asp Val Val Gly Ile Gly Val Asp Ser Thr Gly Ser Thr Pro
 100 105 110
 Ala Pro Val Asp Ala Glu Gly Arg Val Leu Ala Leu Arg Pro Glu Phe
 115 120 125
 Ala Asp Asn Pro Asn Ala Met Phe Val Leu Trp Lys Asp His Thr Ala
 130 135 140
 Val Glu Glu Ala Glu Ala Ile Thr Arg Leu Cys Leu Gln Pro Gly Lys
 145 150 155 160
 Thr Asp Tyr Ser Arg Tyr Ile Gly Gly Ile Tyr Ser Ser Glu Trp Phe
 165 170 175
 Trp Ala Lys Ile Leu His Val Thr Arg Ala Asp Ala Ser Val Ala Gln
 180 185 190
 Ala Ala Ala Ser Trp Ile Glu Leu Cys Asp Trp Val Pro Ala Leu Leu
 195 200 205
 Ser Gly Thr Thr Arg Pro Gln Asp Ile Arg Arg Gly Arg Cys Ser Ala
 210 215 220
 Gly His Lys Ser Leu Trp His Glu Ser Trp Gly Gly Leu Pro Pro Ala
 225 230 235 240
 Ala Phe Phe Asp Glu Leu Asp Pro Ile Ile Asn Lys Asn Leu Thr Tyr
 245 250 255
 Pro Leu Phe Thr Asp Thr Phe Thr Ala Asp Ile Pro Val Gly Thr Leu
 260 265 270
 Cys Glu Glu Trp Ala Lys Arg Leu Gly Leu Pro Gln Asn Val Thr Ile
 275 280 285
 Ser Gly Gly Ala Phe Asp Cys His Met Gly Ala Val Gly Ala Gly Ala
 290 295 300
 Gln Pro Asn Thr Leu Val Lys Val Ile Gly Thr Ser Thr Cys Asp Ile
 305 310 315 320
 Leu Thr Ala Asp Lys Ala Ser Val Gly Asp Arg Ala Val Lys Gly Ile
 325 330 335
 Cys Gly Gln Val Asp Gly Ser Val Val Pro Asp Phe Ile Gly Leu Glu
 340 345 350
 Ala Gly Gln Ser Ala Phe Gly Asp Ile Tyr Ala Trp Phe Gly Arg Val

355 360 365
 Leu Gly Trp Pro Leu Asp Gln Leu Ala Ala Ala His Pro Glu Leu Lys
 370 375 380
 Thr Gln Ile Thr Ala Ser Lys Lys Gln Leu Leu Pro Gln Leu Thr Asp
 385 390 395 400
 Ala Trp Ala Lys Asn Pro Ser Leu Asp His Leu Pro Val Val Leu Asp
 405 410 415
 Trp Phe Asn Gly Arg Arg Thr Pro Phe Ala Asn Gln Arg Leu Lys Gly
 420 425 430
 Val Ile Thr Asp Leu Asn Leu Ala Thr Asp Ala Pro Ala Leu Phe Gly
 435 440 445
 Gly Leu Ile Ala Ala Thr Ala Phe Gly Ala Arg Ala Ile Met Glu Cys
 450 455 460
 Phe Ile Asp Gln Gly Ile Asp Val Asn Asn Val Met Ala Leu Gly Gly
 465 470 475 480
 Ile Ala Arg Lys Asn Pro Val Ile Met Gln Ala Cys Cys Asp Val Leu
 485 490 495
 Asn Arg Pro Leu Gln Ile Val Ala Ser Asp Gln Cys Cys Ala Leu Gly
 500 505 510
 Ala Ala Ile Phe Ala Ala Val Ala Ala Gly Val His Ala Asp Ile Pro
 515 520 525
 Thr Ala Gln Gln His Met Ala Ser Ala Val Glu Asn Thr Leu His Pro
 530 535 540
 Gln Thr Gln Gln Ala Gln Arg Phe Glu Gln Leu Tyr Gln Arg Tyr Gln
 545 550 555 560
 Gln Trp Ala Lys Ser Ala Glu Leu His Tyr Leu Pro Val Ala Ala Pro
 565 570 575
 Ala Lys Ser Thr Ala Asp Thr Thr Ala Thr Leu Thr His
 580 585 590

<210> 9430

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 9430

Arg Arg Ala Ala Leu Glu Arg Ser Leu Leu Arg Phe Lys Thr Leu Ser
 1 5 10 15
 Pro Glu Cys Pro Val Ala Leu Arg Leu Pro Gly Leu Arg Phe Cys Arg
 20 25 30
 Pro Asp Lys Arg Ser Ala Ile Trp Gln Glu Thr Thr Met Leu Glu Asp
 35 40 45
 Leu Lys Arg Gln Val Leu Glu Ala Asn Leu Ala Leu Pro Lys His Asn
 50 55 60
 Leu Val Thr Leu Thr Trp Gly Asn Val Ser Ala Val Asp Arg Glu Lys
 65 70 75 80
 Gly Val Phe Val Ile Lys Pro Ser Gly Val Asp Tyr Thr Val Met Thr
 85 90 95
 Ala Glu Asp Met Val Val Val Ser Ile Glu Thr Gly Glu Val Val Glu
 100 105 110
 Gly Lys Lys Lys Pro Ser Ser Asp Thr Pro Thr His Arg Leu Leu Tyr
 115 120 125
 Gln Ala Phe Pro Thr Ile Gly Gly Ile Val His Thr His Ser Arg His
 130 135 140
 Ala Thr Ile Trp Ala Gln Ala Gly Gln Pro Ile Pro Ala Thr Gly Thr
 145 150 155 160
 Thr His Ala Asp Tyr Phe Tyr Gly Thr Ile Pro Cys Thr Arg Leu Met
 165 170 175
 Thr Asp Ala Glu Ile Asn Gly Glu Tyr Glu Trp Glu Thr Gly Asn Val
 180 185 190
 Ile Val Glu Thr Phe Glu Lys Gln Gly Ile Asp Ala Ala Gln Met Pro

```
<210> 9431
<211> 838
<212> PRT
<213> Enterobacter cloacae
```

<400> 9431																
Thr	Phe	Ala	Arg	Cys	Arg	Cys	Ala	Tyr	Arg	Asp	Cys	Gly	Thr	Cys	Arg	
1				5					10					15		
Pro	Asp	Lys	Arg	Ser	Ala	Ile	Arg	Leu	Asn	Arg	His	Cys	Ile	Lys	Pro	
			20					25					30			
Gln	Gln	Thr	Pro	Leu	Asn	Gln	Ala	Ile	Ile	Arg	Pro	Gly	Phe	Val	Leu	
		35					40					45				
Trp	Asp	Asn	Ala	Val	Thr	Gln	Ala	Gln	Glu	Gly	Phe	Leu	Leu	Thr	Arg	
	50					55					60					
His	Trp	Arg	Asp	Thr	Pro	Gln	Gly	Thr	Glu	Val	Glu	Phe	Trp	Leu	Ala	
65					70					75					80	
Thr	Asp	Asn	Gly	Pro	Leu	Asn	Val	Thr	Leu	Pro	Pro	Gln	Glu	Ser	Val	
				85					90					95		
Ala	Phe	Ile	Pro	Glu	Ala	His	Val	Glu	Lys	Val	Lys	Gln	Leu	Leu	Arg	
			100					105					110			
Gly	Glu	Asn	Gly	Trp	Arg	Ile	Thr	Pro	Leu	Glu	Leu	Lys	Asp	Phe	His	
		115					120					125				
Arg	Gln	Pro	Val	Tyr	Gly	Leu	Tyr	Cys	Arg	Ala	His	Arg	Gln	Leu	Met	
	130				135						140					
Arg	Tyr	Glu	Lys	Leu	Leu	Arg	Glu	Ala	Gly	Val	Thr	Leu	Tyr	Glu	Ala	
145					150					155					160	
Asp	Ile	Arg	Pro	Pro	Glu	Arg	Phe	Leu	Met	Glu	Arg	Phe	Ile	Thr	Ala	
				165					170					175		
Pro	Val	Trp	Val	Asp	Gly	Thr	Ala	Gln	Asn	Gly	Arg	Ile	Val	Asn	Ala	
			180					185					190			
Arg	Leu	Lys	Pro	Ser	Pro	Asn	Tyr	Arg	Pro	Pro	Leu	Lys	Trp	Val	Ser	
		195					200					205				
Leu	Asp	Ile	Glu	Thr	Thr	Arg	His	Gly	Glu	Leu	Tyr	Cys	Ile	Gly	Leu	
	210					215					220					
Glu	Gly	Cys	Gly	Gln	Arg	Val	Val	Tyr	Met	Leu	Gly	Pro	Pro	Asn	Gly	
225					230					235					240	
Asp	Ala	Ser	Ala	Leu	Asp	Phe	Asn	Leu	Glu	Tyr	Val	Asn	Ser	Arg	Pro	
				245					250					255		
Gln	Leu	Leu	Glu	Lys	Leu	Asn	Gln	Trp	Phe	Ala	Glu	His	Asp	Pro	Asp	
			260					265					270			
Val	Leu	Ile	Gly	Trp	Asn	Val	Val	Gln	Phe	Asp	Leu	Arg	Val	Leu	Gln	
		275					280					285				
Lys	His	Ala	Glu	Arg	Tyr	Arg	Ile	Pro	Leu	Met	Leu	Gly	Arg	Gly	Asn	
	290					295					300					
Ser	Glu	Leu	Glu	Trp	Arg	Glu	His	Gly	Phe	Lys	Asn	Gly	Val	Phe	Phe	
305					310					315					320	
Ala	Gln	Ala	Asn	Gly	Arg	Leu	Ile	Ile	Asp	Gly	Ile	Glu	Ala	Leu	Lys	
				325					330					335		
Ser	Ala	Phe	Trp	Asn	Phe	Ser	Ser	Phe	Ser	Leu	Glu	Ala	Val	Ala	Glu	

Gln Leu Gly Leu Phe
835

<210> 9432

<211> 268

<212> PRT

<213> *Enterobacter cloacae*

<400> 9432

Ala	Glu	Ser	Leu	Ile	Arg	Phe	Leu	Thr	Gly	Ile	Val	Met	Gln	Ala	Leu
1				5					10					15	
Leu	Glu	His	Phe	Ile	Thr	Gln	Ser	Val	Met	Tyr	Ser	Leu	Ile	Ala	Val
			20					25					30		
Ala	Leu	Val	Ala	Phe	Leu	Glu	Ser	Leu	Ala	Leu	Val	Gly	Leu	Ile	Leu
		35					40					45			
Pro	Gly	Thr	Val	Met	Met	Ala	Gly	Leu	Gly	Ala	Leu	Ile	Gly	Ser	Gly
	50					55					60				
Glu	Val	Asn	Phe	Trp	Gln	Ala	Trp	Met	Ala	Gly	Ile	Ile	Gly	Cys	Leu
65				70						75				80	
Leu	Gly	Asp	Trp	Ile	Ser	Phe	Trp	Leu	Gly	Trp	Arg	Phe	Lys	Lys	Pro
			85						90				95		
Leu	His	Arg	Trp	Ser	Phe	Met	Lys	Lys	Asn	Lys	Ala	Leu	Leu	Asp	Lys
			100					105					110		
Thr	Glu	His	Ala	Leu	His	Gln	His	Ser	Met	Phe	Thr	Ile	Leu	Val	Gly
		115				120						125			
Arg	Phe	Val	Gly	Pro	Thr	Arg	Pro	Leu	Val	Pro	Met	Val	Ala	Gly	Met
	130					135					140				
Leu	Asp	Leu	Pro	Val	Ala	Lys	Phe	Val	Val	Pro	Asn	Ile	Ile	Gly	Cys
145				150						155				160	
Val	Phe	Trp	Pro	Pro	Phe	Tyr	Phe	Leu	Pro	Gly	Ile	Leu	Ala	Gly	Ala
			165					170						175	
Ala	Ile	Asp	Ile	Pro	Asp	Gly	Met	Gln	Ser	Gly	Glu	Phe	Lys	Trp	Leu
		180						185					190		
Leu	Leu	Gly	Thr	Ala	Val	Leu	Leu	Trp	Leu	Ala	Val	Trp	Leu	Cys	Trp
	195					200						205			
Arg	Leu	Trp	Arg	Ser	Ala	Lys	Ala	Ser	Val	Asp	Arg	Leu	Thr	Arg	Tyr
	210				215						220				
Leu	Pro	Arg	Thr	Arg	Leu	Leu	Trp	Leu	Ala	Pro	Leu	Thr	Leu	Gly	Val
225				230						235				240	
Ala	Val	Val	Ala	Leu	Ile	Ala	Leu	Ile	Arg	His	Pro	Leu	Met	Pro	Val
			245					250						255	
Tyr	Gly	Glu	Ile	Leu	Leu	Lys	Val	Val	Ser	Arg					
		260						265							

<210> 9433

<211> 421

<212> PRT

<213> *Enterobacter cloacae*

<400> 9433

Ser	Pro	Ala	Ser	Lys	Met	Phe	Phe	Ala	Gly	Phe	Phe	Arg	Leu	Leu	Phe
1				5					10					15	
His	Pro	Ile	Ser	Ile	Arg	Phe	His	Lys	Asp	Leu	Arg	Met	Leu	Trp	Leu
			20					25					30		
Met	Thr	Met	Gly	Arg	Arg	Leu	Asn	Gly	Val	Tyr	Ala	Ala	Phe	Met	Leu
		35					40					45			
Val	Ala	Phe	Met	Met	Gly	Val	Ala	Gly	Ala	Leu	Gln	Ala	Pro	Thr	Leu
	50					55					60				
Ser	Leu	Phe	Leu	Ser	Arg	Glu	Val	Gly	Ala	Gln	Pro	Phe	Trp	Val	Gly
65				70						75				80	
Leu	Phe	Tyr	Thr	Val	Asn	Ala	Ile	Ala	Gly	Ile	Leu	Val	Ser	Leu	Trp

```

      85      90      95
Leu Ala Lys Arg Ser Asp Ser Gln Gly Asp Arg Arg Lys Leu Ile Leu
      100      105      110
Phe Cys Cys Ala Met Ala Val Gly Asn Ala Leu Leu Phe Ala Phe Asn
      115      120      125
Arg His Tyr Leu Thr Leu Ile Thr Cys Gly Val Leu Leu Ala Ser Leu
      130      135      140
Ala Asn Thr Ala Met Pro Gln Leu Phe Ala Leu Ala Arg Glu Tyr Ala
      145      150      155
Asp Asn Ser Ala Arg Glu Val Val Met Phe Ser Ser Val Met Arg Ala
      165      170      175
Gln Leu Ser Leu Ala Trp Val Ile Gly Pro Pro Leu Ala Phe Met Leu
      180      185      190
Ala Leu Asn Tyr Gly Phe Thr Thr Met Phe Ser Ile Ala Ala Gly Ile
      195      200      205
Phe Val Ile Ser Leu Ala Leu Ile Ala Phe Ala Leu Pro Ser Val Ala
      210      215      220
Arg Val Glu Gln Val Thr Asp Lys Pro Ile Thr Gln Val Ser Gly Trp
      225      230      235
Gln Asp Lys Asn Val Arg Met Leu Phe Ile Ala Ser Thr Leu Thr Trp
      245      250      255
Thr Cys Asn Thr Met Tyr Ile Ile Asp Met Pro Leu Trp Ile Ser Ser
      260      265      270
Asp Leu Gly Leu Pro Asp Lys Leu Ala Gly Ile Leu Met Gly Thr Ala
      275      280      285
Ala Gly Leu Glu Ile Pro Ala Met Ile Leu Ala Gly Tyr Tyr Val Lys
      290      295      300
Arg Phe Gly Lys Arg Lys Met Met Val Val Ala Val Ala Ala Gly Val
      305      310      315
Leu Phe Tyr Leu Gly Leu Ile Leu Phe His Ser Arg Glu Ala Leu Leu
      325      330      335
Ala Leu Gln Leu Phe Asn Ala Val Phe Ile Gly Ile Val Ala Gly Ile
      340      345      350
Gly Met Leu Trp Phe Gln Asp Leu Met Pro Gly Arg Ala Gly Ser Ala
      355      360      365
Thr Thr Leu Phe Thr Asn Ser Ile Ser Thr Gly Val Ile Leu Ala Gly
      370      375      380
Val Ile Gln Gly Ala Leu Ala Gln Ser Tyr Gly His Gly Ser Val Tyr
      385      390      395
Trp Met Ile Ala Ala Ile Ser Val Val Thr Leu Gly Leu Thr Cys Arg
      405      410      415
Val Lys Asp Val
      420

```

<210> 9434

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 9434

```

Ala Lys Arg Arg Glu Pro Asp Met Arg Arg Ile Leu Ser Val Leu Leu
1      5      10      15
Glu Asn Glu Ser Gly Ala Leu Ser Arg Val Ile Gly Leu Phe Ala Gln
      20      25      30
Arg Gly Tyr Asn Ile Glu Ser Leu Thr Val Ala Pro Thr Asp Asp Pro
      35      40      45
Thr Leu Ser Arg Met Thr Ile Gln Thr Val Gly Asp Ala Lys Val Leu
      50      55      60
Glu Gln Ile Glu Lys Gln Leu His Lys Leu Val Asp Val Leu Arg Val
      65      70      75      80
Ser Glu Leu Gly Gln Gly Ala Tyr Val Glu Arg Glu Val Met Leu Val

```

				85				90					95				
Lys	Ile	Gln	Ala	Ser	Gly	Tyr	Gly	Arg	Glu	Glu	Val	Lys	Arg	Asn	Thr		
			100					105					110				
Asp	Ile	Phe	Arg	Gly	Gln	Ile	Ile	Asp	Val	Thr	Pro	Ser	Ile	Tyr	Thr		
		115					120					125					
Val	Gln	Leu	Ala	Gly	Thr	Ser	Asp	Lys	Leu	Asp	Ala	Phe	Leu	Ala	Ser		
	130					135					140						
Val	Arg	Asp	Val	Ala	Lys	Ile	Val	Glu	Val	Ala	Arg	Ser	Gly	Val	Val		
145					150					155					160		
Gly	Leu	Ser	Arg	Gly	Asp	Lys	Ile	Met	Arg								
				165				170									

<210> 9435

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 9435

Phe	Ser	Ala	Ala	Tyr	Cys	Arg	Glu	Asp	Glu	Arg	Met	Ile	Ser	Arg	Val		
1				5					10					15			
Thr	Glu	Thr	Leu	Ser	Lys	Val	Lys	Gly	Ser	Leu	Gly	Ser	Asn	Glu	Arg		
			20					25					30				
His	Ala	Leu	Pro	Gly	Val	Ile	Gly	Asp	Asp	Leu	Leu	Arg	Phe	Gly	Lys		
		35					40					45					
Leu	Pro	Leu	Cys	Leu	Phe	Ile	Cys	Ile	Ile	Val	Thr	Ala	Val	Met	Val		
	50					55					60						
Val	Thr	Thr	Ala	His	His	Thr	Arg	Leu	Leu	Thr	Ala	Gln	Arg	Glu	Gln		
65					70					75					80		
Met	Val	Leu	Glu	Arg	Asp	Ala	Leu	Asp	Ile	Glu	Trp	Arg	Asn	Leu	Ile		
				85				90					95				
Leu	Glu	Glu	Asn	Ala	Leu	Gly	Asp	His	Ser	Arg	Val	Glu	Arg	Ile	Ala		
			100				105					110					
Thr	Glu	Lys	Leu	Gln	Leu	Gln	His	Val	Asp	Pro	Ser	Gln	Glu	Asn	Ile		
		115					120					125					
Val	Val	Gln	Lys														
			130														

<210> 9436

<211> 594

<212> PRT

<213> Enterobacter cloacae

<400> 9436

Gly	Lys	Thr	Arg	Arg	Met	Lys	Ala	Ala	Ala	Lys	Thr	Leu	Lys	Pro	Lys		
1				5					10					15			
Arg	Gln	Glu	Glu	Gln	Ala	Asn	Phe	Val	Ser	Trp	Arg	Phe	Ala	Leu	Leu		
			20					25					30				
Cys	Gly	Cys	Ile	Leu	Leu	Ala	Leu	Gly	Phe	Leu	Leu	Gly	Arg	Val	Ala		
		35					40					45					
Trp	Leu	Gln	Ile	Ile	Ala	Pro	Asp	Met	Leu	Val	Arg	Gln	Gly	Asp	Met		
	50					55					60						
Arg	Ser	Leu	Arg	Val	Gln	Glu	Val	Ser	Thr	Ser	Arg	Gly	Met	Ile	Thr		
65					70				75					80			
Asp	Arg	Ser	Gly	Arg	Pro	Leu	Ala	Val	Ser	Val	Pro	Val	Lys	Ala	Ile		
				85				90					95				
Trp	Ala	Asp	Pro	Lys	Glu	Leu	His	Asp	Ala	Gly	Gly	Ile	Thr	Leu	Asp		
			100				105					110					
Asn	Arg	Trp	Lys	Ala	Leu	Ser	Asp	Ala	Leu	Lys	Met	Pro	Leu	Asp	Gln		
		115					120					125					
Leu	Ala	Ser	Arg	Val	Asn	Ala	Asn	Pro	Lys	Gly	Arg	Phe	Ile	Tyr	Leu		
						135						140					

Ala Arg Gln Val Asn Pro Asp Met Ala Asp Tyr Ile Lys Lys Leu Lys
 145 150 155 160
 Leu Pro Gly Ile His Leu Arg Glu Glu Ser Arg Arg Tyr Tyr Pro Ser
 165 170 175
 Gly Glu Val Thr Ala His Leu Ile Gly Phe Thr Asn Val Asp Ser Gln
 180 185 190
 Gly Ile Glu Gly Val Glu Lys Ser Phe Asp Lys Trp Leu Thr Gly Gln
 195 200 205
 Pro Gly Glu Arg Ile Val Arg Lys Asp Arg Tyr Gly Arg Val Ile Glu
 210 215 220
 Asp Ile Ser Ser Thr Asp Ser Gln Ala Ala His Asn Leu Ala Leu Ser
 225 230 235 240
 Ile Asp Glu Arg Leu Gln Ala Leu Val Tyr Arg Glu Leu Asn Asn Ala
 245 250 255
 Val Ala Phe Asn Lys Ala Glu Ser Gly Ser Ala Val Leu Val Asp Val
 260 265 270
 Ala Thr Gly Glu Val Leu Ala Met Ala Ser Ser Pro Ser Tyr Asn Pro
 275 280 285
 Asn Asn Phe Ala Gly Thr Ala Lys Asp Ala Met Arg Asn Arg Ser Ile
 290 295 300
 Thr Asp Val Phe Glu Pro Gly Ser Thr Val Lys Pro Met Val Val Met
 305 310 315 320
 Thr Ala Leu Gln Arg Gly Ile Val Asn Glu Asn Thr Val Leu Asn Thr
 325 330 335
 Ile Pro Tyr Arg Ile Asn Gly His Glu Ile Lys Asp Val Ala Arg Tyr
 340 345 350
 Ser Glu Leu Thr Leu Thr Gly Val Leu Gln Lys Ser Ser Asn Val Gly
 355 360 365
 Val Ser Lys Leu Ala Leu Ala Met Pro Ser Ser Ala Leu Val Asp Thr
 370 375 380
 Tyr Ser Arg Phe Gly Leu Gly Lys Ala Thr Asn Leu Gly Leu Val Gly
 385 390 395 400
 Glu Arg Ser Gly Leu Tyr Pro Gln Lys Gln Arg Trp Ser Asp Ile Glu
 405 410 415
 Arg Ala Thr Phe Ser Phe Gly Tyr Gly Leu Met Val Thr Pro Leu Gln
 420 425 430
 Leu Ala Arg Val Tyr Ala Thr Ile Gly Ser Tyr Gly Ile Tyr Arg Pro
 435 440 445
 Leu Ser Ile Thr Lys Val Asp Pro Pro Val Pro Gly Glu Arg Val Phe
 450 455 460
 Pro Glu Ser Ile Val Arg Thr Val Val His Met Met Glu Ser Val Ala
 465 470 475 480
 Leu Pro Gly Gly Gly Val Lys Ala Ala Ile Lys Gly Tyr Arg Ile
 485 490 495
 Ala Ile Lys Thr Gly Thr Ala Lys Lys Val Gly Pro Asp Gly Arg Tyr
 500 505 510
 Ile Asn Lys Tyr Ile Ala Tyr Thr Ala Gly Val Ala Pro Ala Ser Asn
 515 520 525
 Pro Arg Phe Ala Leu Val Val Val Ile Asn Asp Pro Gln Ala Gly Lys
 530 535 540
 Tyr Tyr Gly Gly Ala Val Ser Ala Pro Val Phe Gly Ala Ile Met Gly
 545 550 555 560
 Gly Val Leu Arg Thr Met Asn Ile Glu Pro Asp Ala Leu Ala Thr Gly
 565 570 575
 Glu Lys Ser Glu Phe Val Ile Asn Gln Gly Glu Gly Thr Gly Gly Arg
 580 585 590
 Ser

<210> 9437

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 9437

```

Arg Leu Ser Asp Cys Arg Gln Ser Ser Ser Gly Leu Leu Arg Pro Arg
1      5      10      15
Asp Gly Ser Ala Ser Ala Gly Ser Gly Gly Met Ile Ser Ile Thr Leu
20      25      30
Ser Gln Ala Ala Ala Val Leu Gln Gly Met Leu His Gly Gln Asp Leu
35      40      45
Thr Ile Glu Ala Val Thr Thr Asp Thr Arg Lys Val Thr Ala Gly Cys
50      55      60
Leu Phe Val Ala Leu Lys Gly Glu Arg Phe Asp Ala His Asp Phe Ala
65      70      75      80
Gln Gln Ala Lys Asp Asn Gly Ala Gly Ala Leu Leu Val Ser Arg Lys
85      90      95
Leu Asp Ile Asp Leu Pro Gln Ile Val Val Lys Asp Thr Arg Leu Ala
100     105     110
Phe Gly Glu Leu Ala Ala Trp Val Arg Gln Gln Val Pro Thr Arg Val
115     120     125
Val Ala Leu Thr Gly Ser Ser Gly Lys Thr Ser Val Lys Glu Met Thr
130     135     140
Ala Ala Ile Leu Ser Gln Cys Gly Asn Thr Leu Tyr Thr Ala Gly Asn
145     150     155     160
Leu Asn Asn Asp Ile Gly Val Pro Met Thr Leu Leu Arg Leu Thr His
165     170     175
Glu His Glu Tyr Ala Val Ile Glu Leu Gly Ala Asn His Gln Gly Glu
180     185     190
Ile Ala Trp Thr Val Ser Leu Thr Arg Pro Glu Ala Ala Leu Val Asn
195     200     205
Asn Leu Ala Ala Ala His Leu Glu Gly Phe Gly Ser Leu Ala Gly Val
210     215     220
Ala Lys Ala Lys Gly Glu Ile Tyr Thr Gly Leu Pro Asp Asp Gly Ile
225     230     235     240
Ala Ile Met Asn Ala Asp Asn Asn Asp Trp Leu Asn Trp Gln Ser Ile
245     250     255
Ile Gly Ser Arg Lys Thr Trp Arg Phe Ser Pro Asn Ala Ala Asn Ser
260     265     270
Asp Phe Ser Ala Thr Asn Ile His Val Thr Ser His Gly Thr Glu Phe
275     280     285
Thr Leu Thr Thr Pro Thr Gly Asp Ile Asp Val Leu Leu Pro Leu Pro
290     295     300
Gly Arg His Asn Ile Ala Asn Ala Leu Ala Ala Ala Leu Ser Met
305     310     315     320
Ala Val Gly Ala Ser His Ala Ala Ile Lys Ala Gly Leu Ala Asn Leu
325     330     335
Lys Ala Val Pro Gly Arg Leu Phe Pro Ile Gln Leu Ala Glu Asn Lys
340     345     350
Leu Leu Leu Asp Asp Ser Tyr Asn Ala Asn Val Gly Ser Met Thr Ala
355     360     365
Ala Val Gln Val Leu Ser Glu Met Pro Gly Tyr Arg Val Met Val Val
370     375     380
Gly Asp Met Ala Glu Leu Gly Asp Glu Ser Glu Ala Cys His Val Gln
385     390     395     400
Val Gly Glu Ala Ala Lys Ala Ala Gly Leu Asp Arg Val Leu Ser Ala
405     410     415
Gly Pro Leu Ser Lys Ala Ile Ser Asp Ala Ser Glu Val Gly Glu His
420     425     430
Phe Ala Asp Lys Ser Ala Leu Ile Glu Arg Leu Lys Ala Leu Ile Thr
435     440     445
Glu Lys Gln Ile Val Thr Val Leu Val Lys Gly Ser Arg Ser Ala Ala

```

450 455 460
 Met Glu Glu Val Val His Ala Leu Gln Glu Asn Gly Thr Cys
 465 470 475

<210> 9438

<211> 426

<212> PRT

<213> Enterobacter cloacae

<400> 9438

Cys Leu Tyr Pro Pro Gly Glu Gly Val Arg Leu Met Arg Leu Ser Leu
 1 5 10 15
 Pro Arg Leu Lys Met Pro Arg Leu Pro Gly Phe Gly Ile Leu Val Trp
 20 25 30
 Leu Phe Thr Ala Leu Lys Gly Trp Val Met Ala Ser Arg Asp Lys Asp
 35 40 45
 Ser Asp Ser Leu Ile Met Tyr Asp Arg Thr Leu Phe Trp Leu Thr Leu
 50 55 60
 Gly Leu Ala Ala Ile Gly Phe Ile Met Val Thr Ser Ala Ser Met Pro
 65 70 75 80
 Val Gly Gln Arg Leu Ala Asn Asp Pro Phe Leu Phe Ala Lys Arg Asp
 85 90 95
 Gly Leu Tyr Ile Ile Leu Ala Phe Cys Leu Ala Leu Ile Thr Leu Arg
 100 105 110
 Leu Pro Met Ser Phe Trp Gln Arg His Ser Thr Ala Met Leu Ile Ala
 115 120 125
 Ser Ile Ile Met Leu Leu Ile Val Leu Val Val Gly Ser Ser Val Asn
 130 135 140
 Gly Ala Ser Arg Trp Ile Ala Phe Gly Pro Leu Arg Ile Gln Pro Ala
 145 150 155 160
 Glu Phe Thr Lys Leu Ser Leu Phe Cys Tyr Leu Ala Asn Tyr Leu Val
 165 170 175
 Arg Lys Val Asp Glu Val Arg Asn Asn Leu Arg Gly Phe Leu Lys Pro
 180 185 190
 Met Gly Val Ile Leu Val Leu Ala Ile Leu Leu Leu Ala Gln Pro Asp
 195 200 205
 Leu Gly Thr Val Val Val Leu Phe Val Thr Thr Leu Ala Met Leu Phe
 210 215 220
 Leu Ala Gly Ala Lys Leu Trp Gln Phe Ile Ala Ile Ile Gly Met Gly
 225 230 235 240
 Ile Ser Ala Val Val Leu Leu Ile Leu Ala Glu Pro Tyr Arg Ile Arg
 245 250 255
 Arg Val Thr Ser Phe Trp Asn Pro Trp Glu Asp Pro Phe Gly Ser Gly
 260 265 270
 Tyr Gln Leu Thr Gln Ser Leu Met Ala Phe Gly Arg Gly Glu Val Trp
 275 280 285
 Gly Gln Gly Leu Gly Asn Ser Val Gln Lys Leu Glu Tyr Leu Pro Glu
 290 295 300
 Ala His Thr Asp Phe Ile Phe Ser Ile Ile Gly Glu Glu Leu Gly Tyr
 305 310 315 320
 Ile Gly Val Val Leu Ala Leu Leu Met Val Phe Phe Val Ala Phe Arg
 325 330 335
 Ala Met Ser Ile Gly Arg Lys Ala Leu Glu Ile Asp His Arg Phe Ser
 340 345 350
 Gly Phe Leu Ala Cys Ser Ile Gly Ile Trp Phe Ser Phe Gln Ala Leu
 355 360 365
 Val Asn Val Gly Ala Ala Ala Gly Met Leu Pro Thr Lys Gly Leu Thr
 370 375 380
 Leu Pro Leu Ile Ser Tyr Gly Gly Ser Ser Leu Leu Ile Met Ser Thr
 385 390 395 400
 Ala Ile Met Phe Leu Leu Arg Ile Asp Tyr Glu Thr Arg Leu Glu Lys

5053

Ala Gln Ala Phe Thr Arg Gly Ser Arg
 405 410 415
 420 425

<210> 9439
 <211> 188
 <212> PRT
 <213> Enterobacter cloacae

<400> 9439
 Leu Tyr Val Phe Trp Thr Arg Arg Ala Asp Met Ser Gln Ala Ala Leu
 1 5 10 15
 Asn Thr Arg Asn Arg Asp Asp Glu Glu Tyr Ser Ser Arg Arg
 20 25 30
 Ser Asn Gly Thr Arg Leu Ala Gly Ile Ile Phe Leu Leu Gly Val Leu
 35 40 45
 Cys Thr Val Phe Ile Ser Gly Trp Met Val Leu Gly Trp Met Glu Asp
 50 55 60
 Ala Gln Arg Leu Pro Leu Ser Lys Leu Val Val Thr Gly Glu Arg His
 65 70 75 80
 Tyr Thr Arg Asn Asp Asp Ile Arg Gln Ser Ile Leu Ala Leu Gly Ser
 85 90 95
 Pro Gly Thr Phe Met Thr Gln Asp Val Asn Ile Ile Gln Ser Gln Ile
 100 105 110
 Glu Arg Leu Pro Trp Ile Lys Gln Ala Ser Val Arg Lys Gln Trp Pro
 115 120 125
 Asp Glu Leu Lys Ile His Leu Val Glu Tyr Val Pro Ile Ala Arg Trp
 130 135 140
 Asn Asp Gln His Met Val Asp Val Asp Gly Asn Ser Phe Ser Val Pro
 145 150 155 160
 Ser Asp Arg Val Asn Lys Gln Asn Leu Pro Met Leu Tyr Gly Pro Ala
 165 170 175
 Val Ile Glu Asn Arg Arg Ile Pro Gly Phe Ser
 180 185

<210> 9440
 <211> 337
 <212> PRT
 <213> Enterobacter cloacae

<400> 9440
 Ile Ile Phe Phe Glu Val Ile Thr Val Pro Trp Gln Arg Glu Phe Ser
 1 5 10 15
 Val Thr Val Glu Ser Glu Met Pro Glu Asn Asn Ile Asn Gln Pro Gln
 20 25 30
 Thr Tyr Asp Gly Val Lys Pro Gln Leu Arg Thr Val Asp Leu Asn Leu
 35 40 45
 Leu Thr Val Phe Asp Ala Val Met Gln Glu Gln Asn Ile Thr Arg Ala
 50 55 60
 Ala Gln Ser Leu Gly Met Ser Gln Pro Ala Val Ser Asn Ala Val Ala
 65 70 75 80
 Arg Leu Lys Val Met Phe Asn Asp Glu Leu Phe Val Arg Tyr Gly Arg
 85 90 95
 Gly Ile Gln Pro Thr Ala Arg Ala Phe Gln Leu Phe Gly Ser Ile Arg
 100 105 110
 Gln Ala Leu Gln Leu Val Gln Asn Glu Leu Pro Gly Ser Gly Phe Glu
 115 120 125
 Pro Leu Ser Ser Glu Arg Val Phe His Leu Cys Val Cys Ser Pro Leu
 130 135 140
 Asp Asn Tyr Leu Thr Ser Val Ile Tyr Asn Lys Val Glu Gln Ile Ala
 145 150 155 160

Pro Asn Ile His Leu Val Phe Lys Ser Ser Leu Asn Gln Asn Thr Glu
 165 170 175
 His Gln Leu Arg Tyr Gln Glu Thr Glu Phe Val Leu Gly Tyr Glu Glu
 180 185 190
 Phe Arg Arg Pro Glu Phe Ala Cys Val Pro Leu Phe Lys Asp Glu Met
 195 200 205
 Val Leu Val Ala Ser Lys Lys His Pro Arg Met Asn Ser Pro Leu Arg
 210 215 220
 Glu Ser Asp Val Tyr Ser Glu Gln His Ala Val Val Ala Leu Asp Arg
 225 230 235 240
 Tyr Ala Ser Phe Ser Leu Pro Trp Tyr Asp Thr Ala Asp Lys Gln Ala
 245 250 255
 Ser Val Ala Tyr Gln Gly Met Ala Met Val Ser Val Leu Asn Val Val
 260 265 270
 Ser Gln Thr Gln Leu Val Ala Ile Ala Pro Arg Trp Leu Ala Glu Glu
 275 280 285
 Phe Ser Asp Ser Leu Ser Leu Gln Ile Leu Pro Leu Pro Leu Lys Leu
 290 295 300
 Asn Ser Arg Thr Cys Tyr Leu Ser Trp His Glu Ala Ala Gly Arg Asp
 305 310 315 320
 Lys Gly His Gln Trp Met Glu Glu Leu Leu Val Asn Ile Cys Arg Arg
 325 330 335

<210> 9441

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 9441

Phe Arg Asn Ile Ile Gly Thr Ala Ala Gly Leu Val Ser Ile Asn Met
 1 5 10 15
 Met Glu Asn Tyr Lys His Thr Thr Val Leu Leu Asp Glu Ala Val Asn
 20 25 30
 Gly Leu Asn Ile Arg Pro Asp Gly Ile Tyr Ile Asp Gly Thr Phe Gly
 35 40 45
 Arg Gly Gly His Ser Arg Leu Ile Leu Ser Gln Leu Gly Ala Glu Gly
 50 55 60
 Arg Leu Leu Ala Ile Asp Arg Asp Pro Gln Ala Ile Ala Val Ala Gln
 65 70 75 80
 Thr Ile Asp Asp Pro Arg Phe Ser Ile Val His Gly Pro Phe Ser Ala
 85 90 95
 Leu Ala Asp Tyr Val Ala Glu Arg Gly Leu Thr Gly Lys Ile Asp Gly
 100 105 110
 Ile Leu Leu Asp Leu Gly Val Ser Ser Pro Gln Leu Asp Asp Ala Glu
 115 120 125
 Arg Gly Phe Ser Phe Met Arg Asp Gly Pro Leu Asp Met Arg Met Asp
 130 135 140
 Pro Thr Arg Gly Gln Ser Ala Ala Glu Trp Leu Gln Thr Ala Asp Glu
 145 150 155 160
 Ala Asp Ile Ala Trp Val Ile Lys Thr Phe Gly Glu Glu Arg Phe Gly
 165 170 175
 Lys Arg Ile Ala Arg Ala Ile Val Glu Arg Asn Arg Val Glu Pro Met
 180 185 190
 Thr Arg Thr Lys Glu Leu Ala Glu Val Ile Ala Ala Ala Thr Pro Val
 195 200 205
 Lys Asp Lys His Lys His Pro Ala Thr Arg Thr Phe Gln Ala Val Arg
 210 215 220
 Ile Trp Val Asn Ser Glu Leu Glu Glu Ile Glu Leu Ala Leu Lys Ser
 225 230 235 240

Ser Leu Asp Val Leu Ala Pro Gly Gly Arg Leu Ser Ile Ile Ser Phe
 245 250 255
 His Ser Leu Glu Asp Arg Ile Val Lys Arg Phe Met Arg Glu Gln Ser
 260 265 270
 Arg Gly Pro Gln Val Pro Ala Gly Leu Pro Met Thr Glu Glu Gln Leu
 275 280 285
 Arg Lys Leu Gly Gly Arg Gln Leu Arg Ala Leu Gly Lys Leu Met Pro
 290 295 300
 Gly Glu Glu Glu Val Ala Glu Asn Pro Arg Ala Arg Ser Ser Val Leu
 305 310 315 320
 Arg Ile Ala Glu Arg Thr Asn Ala
 325

<210> 9442

<211> 503

<212> PRT

<213> Enterobacter cloacae

<400> 9442

Leu Ile Lys Ala Arg Glu Gln Val Ala Asp Arg Asn Leu Arg Asp Leu
 1 5 10 15
 Leu Ala Pro Trp Val Pro Met Leu Pro Ala Arg Ala Leu Arg Glu Met
 20 25 30
 Val Leu Asp Ser Arg Val Ala Ala Ser Gly Asp Leu Phe Val Ala Val
 35 40 45
 Val Gly His Gln Ala Asp Gly Arg Arg Tyr Ile Pro Gln Ala Ile Ala
 50 55 60
 Gln Gly Val Ala Ala Ile Ile Ala Glu Ala Lys Asp Glu Ala Thr Asp
 65 70 75 80
 Gly Glu Ile Arg Glu Met His Gly Val Pro Val Ile Tyr Leu Ser Gln
 85 90 95
 Leu Asn Glu Arg Leu Ser Ala Leu Ala Gly Arg Phe Tyr Asn Glu Pro
 100 105 110
 Ser Asp Gln Leu Gln Leu Val Gly Val Thr Gly Thr Asn Gly Lys Thr
 115 120 125
 Thr Thr Thr Gln Leu Met Ala Gln Trp Ala Gln Leu Leu Gly Glu Thr
 130 135 140
 Gly Ala Val Met Gly Thr Val Gly Asn Gly Leu Leu Gly Lys Val Ser
 145 150 155 160
 Pro Thr Glu Asn Thr Thr Gly Ser Ala Val Asp Val Gln Arg Val Leu
 165 170 175
 Ala Gly Leu Ala Glu Gln Gly Ala Thr Phe Ala Ala Met Glu Val Ser
 180 185 190
 Ser His Gly Leu Val Gln His Arg Val Ala Ala Leu Lys Phe Ala Ala
 195 200 205
 Ser Val Phe Thr Asn Leu Ser Arg Asp His Leu Asp Tyr His Gly Asp
 210 215 220
 Met Glu His Tyr Glu Ala Ala Lys Trp Leu Leu Tyr Ser Thr His His
 225 230 235 240
 His Gly Gln Ala Ile Ile Asn Ala Asp Asp Glu Val Gly Arg Arg Trp
 245 250 255
 Leu Glu Lys Leu Pro Asp Ala Val Ala Val Ser Met Glu Asp Arg Ile
 260 265 270
 Asn Pro Asn Cys Arg Gly Arg Trp Leu Lys Ala Val Glu Val Asn Tyr
 275 280 285
 His Asp Ser Gly Ala Thr Ile Arg Phe Ala Ser Ile Trp Gly Glu Gly
 290 295 300
 Glu Ile Glu Ser Arg Leu Met Gly Ala Phe Asn Val Ser Asn Leu Leu
 305 310 315 320
 Leu Ala Leu Ala Thr Leu Leu Ala Leu Gly Tyr Pro Met Ala Asp Leu
 325 330 335

Leu Lys Thr Ala Glu Arg Leu Gln Pro Val Cys Gly Arg Met Glu Val
 340 345 350
 Phe Ser Ala Pro Gly Lys Pro Thr Val Val Val Asp Tyr Ala His Thr
 355 360 365
 Pro Asp Ala Leu Glu Lys Ala Leu Glu Ala Ala Arg Leu His Cys Ala
 370 375 380
 Gly Lys Leu Trp Cys Val Phe Gly Cys Gly Gly Asp Arg Asp Lys Gly
 385 390 395 400
 Lys Arg Pro Leu Met Gly Ala Ile Ala Glu Gln Phe Ala Asp Ile Pro
 405 410 415
 Val Val Thr Asp Asn Pro Arg Thr Glu Glu Pro Arg Ala Ile Ile
 420 425 430
 Asn Asp Ile Leu Ala Gly Met Leu Asp Ala Gly Arg Ala Arg Val Val
 435 440 445
 Glu Gly Arg Ala Glu Ala Val Thr Asn Ala Ile Met Gln Ala Gln Glu
 450 455 460
 Asn Asp Val Val Leu Leu Ala Gly Lys Gly His Glu Asp Tyr Gln Ile
 465 470 475 480
 Val Gly Asn Arg Arg Leu Asp Tyr Ser Asp Arg Val Thr Ala Ala Arg
 485 490 495
 Leu Leu Gly Val Val Ala
 500

<210> 9443

<211> 472

<212> PRT

<213> Enterobacter cloacae

<400> 9443

Thr Glu Arg Leu Ala Gly Ala Ala Arg His Cys Ala Leu Leu Asp Tyr
 1 5 10 15
 Phe Ala Asp Ala Gly Ala Asp Trp Pro Gly Asn Ala Glu Gly Thr Leu
 20 25 30
 Ile Met Ala Asp Tyr Gln Gly Lys Lys Val Val Ile Ile Gly Leu Gly
 35 40 45
 Leu Thr Gly Leu Ser Cys Val Asp Phe Phe Leu Ala Arg Gly Val Thr
 50 55 60
 Pro Arg Val Met Asp Thr Arg Val Ser Pro Pro Gly Leu Asp Lys Leu
 65 70 75 80
 Pro Glu Gln Val Glu Arg His Leu Gly Gly Leu Asn Asp Glu Trp Leu
 85 90 95
 Leu Thr Ala Asp Leu Ile Val Ala Ser Pro Gly Met Ala Leu Ala His
 100 105 110
 Pro Ser Leu Ser Ala Ala Ala Asp Ala Gly Val Glu Ile Val Gly Asp
 115 120 125
 Ile Glu Leu Phe Cys Arg Glu Ala Gln Ala Pro Ile Val Ala Ile Thr
 130 135 140
 Gly Ser Asn Gly Lys Ser Thr Val Thr Thr Leu Val Gly Glu Met Ala
 145 150 155 160
 Lys Ala Ala Gly Lys Asn Val Gly Val Gly Gly Asn Ile Gly Leu Pro
 165 170 175
 Ala Leu Met Leu Leu Asp Lys Gly Cys Glu Leu Phe Val Leu Glu Leu
 180 185 190
 Ser Ser Phe Gln Leu Glu Thr Thr Ser Ser Leu His Ala Ala Ala Ala
 195 200 205
 Thr Ile Leu Asn Val Thr Glu Asp His Met Asp Arg Tyr Pro Phe Gly
 210 215 220
 Leu Gln Gln Tyr Arg Ala Ala Lys Leu Arg Val Tyr Glu Asn Ala Lys
 225 230 235 240
 Val Cys Val Val Asn Ala Asp Asp Ala Leu Thr Met Pro Val Arg Gly
 245 250 255

Ala Asp Asp Arg Cys Ile Ser Phe Gly Ile Asn Met Gly Asp Tyr His
 260 265 270
 Leu Asn Arg Gln Gln Gly Glu Thr Trp Leu Arg Val Lys Gly Glu Lys
 275 280 285
 Val Leu Asn Val Lys Glu Met Met Leu Ser Gly Gln His Asn Tyr Thr
 290 295 300
 Asn Ala Leu Ala Ala Leu Ala Leu Ala Asp Ala Val Gly Leu Pro Arg
 305 310 315 320
 Ser Ser Ser Leu Lys Ala Leu Thr Thr Phe Thr Gly Leu Ala His Arg
 325 330 335
 Phe Gln Leu Ala Leu Glu His Asn Gly Val Arg Trp Ile Asn Asp Ser
 340 345 350
 Lys Ala Thr Asn Val Gly Ser Thr Glu Ala Ala Leu Asn Gly Leu His
 355 360 365
 Val Asp Gly Thr Leu His Leu Leu Leu Gly Gly Asp Gly Lys Ser Ala
 370 375 380
 Asp Phe Ser Ser Leu Lys Gln Tyr Leu Asn Gly Asp Asn Val Arg Leu
 385 390 395 400
 Tyr Cys Phe Gly Arg Asp Gly Ser Glu Leu Ala Ala Leu Arg Pro Glu
 405 410 415
 Val Ala Glu Gln Thr Glu Thr Met Glu Gln Ala Met Arg Leu Ile Ala
 420 425 430
 Pro Arg Val Lys Pro Gly Asp Met Val Leu Leu Ser Pro Ala Cys Ala
 435 440 445
 Ser Leu Asp Gln Phe Lys Asn Phe Glu Gln Arg Gly Asp Val Phe Thr
 450 455 460
 Arg Leu Ala Lys Glu Leu Gly
 465 470

<210> 9444

<211> 493

<212> PRT

<213> Enterobacter cloacae

<400> 9444

Arg Met Asn Thr Gln Gln Leu Ala Lys Leu Arg Ser Ile Val Pro Glu
 1 5 10 15
 Met Arg Arg Val Arg His Ile His Phe Val Gly Ile Gly Gly Ala Gly
 20 25 30
 Met Gly Gly Ile Ala Glu Val Leu Ala Asn Glu Gly Tyr Gln Ile Ser
 35 40 45
 Gly Ser Asp Leu Ala Pro Asn Pro Val Thr Gln Gln Leu Ala Ser Leu
 50 55 60
 Gly Ala Thr Ile Tyr Phe Asn His Arg Pro Glu Asn Val Ser Asp Ala
 65 70 75 80
 Ser Val Val Val Val Ser Ser Ala Ile Ser Ala Asp Asn Pro Glu Ile
 85 90 95
 Val Ala Ala His Glu Ala Arg Ile Pro Val Ile Arg Arg Ala Glu Met
 100 105 110
 Leu Ala Glu Leu Met Arg Phe Arg His Gly Ile Ala Val Ala Gly Thr
 115 120 125
 His Gly Lys Thr Thr Thr Thr Ala Met Val Ser Ser Ile Tyr Ala Glu
 130 135 140
 Ala Gly Leu Asp Pro Thr Phe Val Asn Gly Gly Leu Val Lys Ala Ala
 145 150 155 160
 Gly Val His Ala Arg Leu Gly His Ser Arg Tyr Leu Ile Ala Glu Ala
 165 170 175
 Asp Glu Ser Asp Ala Ser Phe Leu His Leu Gln Pro Met Val Ala Ile
 180 185 190
 Val Thr Asn Ile Glu Ala Asp His Met Asp Thr Tyr Gln Gly Asp Phe
 195 200 205

Glu Asn Leu Lys Gln Thr Phe Ile Asn Phe Leu His Asn Leu Pro Phe
 210 215 220
 Tyr Gly Arg Ala Val Met Cys Val Asp Asp Pro Val Ile Arg Glu Leu
 225 230 235 240
 Leu Pro Arg Val Gly Arg Gln Ile Thr Thr Tyr Gly Phe Ser Glu Asp
 245 250 255
 Ala Asp Val Arg Val Glu Asp Tyr Lys Gln Ile Gly Ala Gln Gly His
 260 265 270
 Phe Thr Leu Ala Arg Gln Asp Lys Asp Leu Leu His Val Thr Leu Asn
 275 280 285
 Ala Pro Gly Arg His Asn Ala Leu Asn Ala Ala Ala Val Ala Val
 290 295 300
 Ala Thr Glu Glu Gly Ile Asp Asp Glu Ala Ile Leu Arg Ala Leu Glu
 305 310 315 320
 Ser Phe Gln Gly Thr Gly Arg Arg Phe Asp Phe Leu Gly Glu Phe Pro
 325 330 335
 Leu Glu Pro Val Asn Gly Lys Pro Gly Ser Ala Met Leu Val Asp Asp
 340 345 350
 Tyr Gly His His Pro Thr Glu Val Asp Ala Thr Ile Lys Ala Ala Arg
 355 360 365
 Ala Gly Trp Pro Glu Lys Asn Leu Val Met Ile Phe Gln Pro His Arg
 370 375 380
 Tyr Thr Arg Thr Arg Asp Leu Tyr Asp Asp Phe Ala Asn Val Leu Ser
 385 390 395 400
 Gln Val Asp Thr Leu Leu Met Leu Asp Val Tyr Ala Ala Gly Glu Thr
 405 410 415
 Pro Ile Pro Gly Ala Asp Ser Arg Ser Leu Cys Arg Thr Ile Arg Gly
 420 425 430
 Arg Gly Lys Val Asp Pro Ile Leu Val Pro Asp Pro Ala Gln Val Ala
 435 440 445
 Glu Met Leu Ala Pro Val Leu Thr Gly Asn Asp Leu Ile Leu Gln
 450 455 460
 Gly Ala Gly Asn Ile Gly Lys Ile Ala Arg Thr Leu Ala Glu Ile Lys
 465 470 475 480
 Leu Lys Pro Gln Thr Gln Glu Asp Glu Arg His Gly
 485 490

<210> 9445

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 9445

Thr Leu Leu Leu Leu Ile Arg Pro Cys Trp Arg Arg Asn Gln Gly
 1 5 10 15
 Glu Arg Leu Lys His Gly Gly Arg Lys Arg Gly Val Met Leu Phe Gly
 20 25 30
 Ser Phe Arg Gly Pro Phe Leu Tyr Cys Phe Tyr Arg Tyr Gly Gln Leu
 35 40 45
 Val Ser Phe Arg Thr Leu Gly Arg Thr Glu Ser Met Ala Glu Pro Gln
 50 55 60
 Asn Asp Pro Leu Leu Pro Gly Tyr Ser Phe Asn Ala His Leu Val Ala
 65 70 75 80
 Gly Leu Thr Pro Ile Glu Ala Glu Gly Tyr Leu Asp Phe Tyr Val Asp
 85 90 95
 Arg Pro Leu Gly Met Lys Gly Tyr Ile Leu Asn Leu Thr Val Arg Gly
 100 105 110
 Glu Gly Val Val Lys Asn Gly Asp Gln Phe Ile Cys Arg Pro Gly
 115 120 125
 Asp Met Leu Leu Phe Pro Pro Gly Glu Ile His His Tyr Gly Arg His
 130 135 140

Pro Asp Ala Lys Glu Trp Tyr His Gln Trp Val Tyr Phe Arg Pro Arg
 145 150 155 160
 Ala Tyr Trp Gln Glu Trp Leu Ser Trp Pro Ala Ile Phe Ala His Thr
 165 170 175
 Gly Leu Tyr Arg Pro Asp Glu Ala His Leu Ala Gln Phe Arg Glu Leu
 180 185 190
 Phe Ala Gln Ile Ile Glu Ala Gly Gln Ala Gly Gly Arg Tyr Ala Glu
 195 200 205
 Leu Leu Ala Ile Asn Leu Leu Glu Gln Val Leu Leu Arg Arg Met Glu
 210 215 220
 Ala Ile Asn Glu Ser Leu Asn Pro Pro Leu Asp Asn Arg Val Arg Asp
 225 230 235 240
 Ala Cys Gln Tyr Ile Ser Asp His Leu Ala Asp Ser Gln Phe Asp Ile
 245 250 255
 Ala Ser Val Ala Gln His Val Cys Leu Ser Pro Ser Arg Leu Ser His
 260 265 270
 Leu Phe Arg Gln Gln Leu Gly Val Ser Val Leu Ser Trp Arg Glu Asp
 275 280 285
 Gln Arg Ile Ser Gln Ala Lys Leu Leu Leu Ser Thr Thr Arg Met Pro
 290 295 300
 Ile Ala Thr Val Gly Arg Asn Val Gly Phe Glu Asp Gln Leu Tyr Phe
 305 310 315 320
 Ser Arg Val Phe Lys Lys Cys Thr Gly Ala Ser Pro Ser Glu Phe Arg
 325 330 335
 Ala Gly Cys Glu
 340

<210> 9446

<211> 585

<212> PRT

<213> Enterobacter cloacae

<400> 9446

Pro Ser Ile Thr Lys Ala Trp Arg Gln Ser Met Glu Met Leu Ser Gly
 1 5 10 15
 Ala Glu Met Val Val Arg Ser Leu Ile Asp Gln Gly Val Lys Gln Val
 20 25 30
 Phe Gly Tyr Pro Gly Gly Ala Val Leu Asp Ile Tyr Asp Ala Leu His
 35 40 45
 Thr Val Gly Gly Ile Asp His Val Leu Val Arg His Glu Gln Ala Ala
 50 55 60
 Val His Met Ala Asp Gly Leu Ala Arg Ala Thr Gly Glu Val Gly Val
 65 70 75 80
 Val Leu Val Thr Ser Gly Pro Gly Ala Thr Asn Ala Ile Thr Gly Ile
 85 90 95
 Ala Thr Ala Tyr Met Asp Ser Ile Pro Leu Val Ile Leu Ser Gly Gln
 100 105 110
 Val Ala Thr Ser Leu Ile Gly Tyr Asp Ala Phe Gln Glu Cys Asp Met
 115 120 125
 Val Gly Ile Ser Arg Pro Val Val Lys His Ser Phe Leu Val Lys Gln
 130 135 140
 Thr Glu Asp Ile Pro Gly Val Leu Lys Lys Ala Phe Trp Leu Ala Ala
 145 150 155 160
 Ser Gly Arg Pro Gly Pro Val Val Val Asp Leu Pro Lys Asp Ile Leu
 165 170 175
 Asn Pro Ala Asn Lys Leu Pro Tyr Leu Trp Pro Glu Ser Val Ser Met
 180 185 190
 Arg Ser Tyr Asn Pro Thr Thr Gln Gly His Lys Gly Gln Ile Lys Arg
 195 200 205
 Ala Leu Gln Thr Leu Leu Ala Ala Lys Lys Pro Val Val Tyr Val Gly
 210 215 220

Gly Gly Ala Val Asn Ala Ala Cys Glu Thr Gln Leu Arg Glu Leu Ile
 225 230 235 240
 Glu Lys Leu Asn Leu Pro Val Ala Ser Ser Leu Met Gly Leu Gly Ala
 245 250 255
 Phe Pro Ala Thr His Arg Gln Ala Leu Gly Met Leu Gly Met His Gly
 260 265 270
 Thr Tyr Glu Ala Asn Met Thr Met His His Ser Asp Val Ile Phe Ala
 275 280 285
 Val Gly Val Arg Phe Asp Asp Arg Thr Thr Asn Asn Leu Ala Lys Tyr
 290 295 300
 Cys Pro His Ala Thr Val Leu His Ile Asp Ile Asp Pro Thr Ser Ile
 305 310 315 320
 Ser Lys Thr Val Pro Ala Asp Val Pro Ile Val Gly Asp Ala Arg Gln
 325 330 335
 Val Leu Asp Gln Met Leu Asp Leu Leu Ala Gln Glu Thr Ala Ser Gln
 340 345 350
 Pro Leu Asp Glu Ile Arg Asp Trp Trp Gln Gln Ile Glu Gln Trp Arg
 355 360 365
 Gly Arg Gln Cys Leu Lys Tyr Asp Thr Gln Ser Glu Asn Ile Lys Pro
 370 375 380
 Gln Ala Val Ile Glu Thr Ile Trp Arg Leu Thr Asn Gly Asp Ala Tyr
 385 390 395 400
 Val Thr Ser Asp Val Gly Gln His Gln Met Phe Ala Ala Leu Tyr Tyr
 405 410 415
 Pro Phe Asp Lys Pro Arg Arg Trp Ile Asn Ser Gly Gly Leu Gly Thr
 420 425 430
 Met Gly Phe Gly Leu Pro Ala Ala Leu Gly Val Lys Leu Ala Leu Pro
 435 440 445
 Asn Glu Thr Val Ile Cys Val Thr Gly Asp Gly Ser Ile Gln Met Asn
 450 455 460
 Ile Gln Glu Leu Ser Thr Ala Leu Gln Tyr Glu Leu Pro Val Leu Val
 465 470 475 480
 Leu Asn Leu Asn Asn Gly Tyr Leu Gly Met Val Lys Gln Trp Gln Asp
 485 490 495
 Met Ile Tyr Ser Gly Arg His Ser Gln Ser Tyr Met Lys Ser Leu Pro
 500 505 510
 Asp Phe Val Arg Leu Ala Glu Ala Tyr Gly His Ile Gly Met Arg Val
 515 520 525
 Thr Asp Pro Ser Glu Leu Glu Ala Lys Leu Gly Glu Ala Leu Glu His
 530 535 540
 Val Lys Asn Asn Arg Leu Val Phe Met Asp Val Ile Val Asp Gly Thr
 545 550 555 560
 Glu His Val Tyr Pro Met His Ile Arg Gly Gly Gly Met Asp Glu Met
 565 570 575
 Trp Leu Ser Lys Thr Glu Arg Thr
 580 585

<210> 9447

<211> 338

<212> PRT

<213> Enterobacter cloacae

<400> 9447

Gly Ala Ile Val Lys Leu Asp Glu Ile Ala Arg Leu Ala Gly Val Ser
 1 5 10 15
 Arg Thr Thr Ala Ser Tyr Val Ile Asn Gly Lys Ala Lys Gln Tyr Arg
 20 25 30
 Val Ser Asp Lys Thr Val Glu Lys Val Met Ala Val Val Arg Glu His
 35 40 45
 Asn Tyr His Pro Asn Ala Val Ala Gly Leu Arg Ala Gly Arg Thr
 50 55 60

Arg Ser Ile Gly Leu Val Ile Pro Asp Leu Glu Asn Thr Ser Tyr Thr
 65 70 75 80
 Arg Ile Ala Asn Tyr Leu Glu Arg Gln Ala Arg Gln Arg Gly Tyr Gln
 85 90 95
 Leu Leu Ile Ala Cys Ser Glu Asp Gln Pro Asp Asn Glu Met Arg Cys
 100 105 110
 Ile Glu His Leu Leu Gln Arg Gln Val Asp Ala Ile Ile Val Ser Thr
 115 120 125
 Ser Leu Pro Pro Glu His Pro Phe Tyr Gln Arg Trp Ala Asn Asp Pro
 130 135 140
 Phe Pro Ile Val Ala Leu Asp Arg Ala Leu Asp Arg Glu His Phe Thr
 145 150 155 160
 Ser Val Val Gly Ala Asp Gln Asp Asp Ala Glu Met Leu Ala Ala Glu
 165 170 175
 Leu Arg Thr Phe Pro Ala Glu Thr Val Leu Tyr Leu Gly Ala Leu Pro
 180 185 190
 Glu Leu Ser Val Ser Phe Leu Arg Glu Gln Gly Phe Arg Thr Ala Trp
 195 200 205
 Lys Asp Asp Pro Arg Asp Val His Tyr Leu Tyr Ala Asn Ser Tyr Glu
 210 215 220
 Arg Glu Ala Ala Ala Gln Leu Phe Glu Lys Trp Leu Glu Thr His Pro
 225 230 235 240
 Met Pro Gln Ala Leu Phe Thr Thr Ser Phe Ala Leu Leu Gln Gly Val
 245 250 255
 Met Asp Val Thr Leu Arg Arg Asp Gly Lys Leu Pro Ser Asp Leu Ala
 260 265 270
 Ile Ala Thr Phe Gly Asp Asn Glu Leu Leu Asp Phe Leu Gln Cys Pro
 275 280 285
 Val Leu Ala Val Ala Gln Arg His Arg Asp Val Ala Glu Arg Val Leu
 290 295 300
 Glu Ile Val Leu Ala Ser Leu Asp Glu Pro Arg Lys Pro Lys Pro Gly
 305 310 315 320
 Leu Thr Arg Ile Lys Arg Asn Leu Tyr Arg Arg Gly Ile Leu Ser Arg
 325 330 335
 His

<210> 9448

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 9448

Thr Pro Ser Gly Gly Asn Leu Trp Val Lys Val Val Arg Arg Gly Glu
 1 5 10 15
 Thr Gly Met Phe Arg Gly Ala Thr Leu Val Asn Leu Asp Ser Lys Gly
 20 25 30
 Arg Leu Ser Val Pro Thr Arg Tyr Arg Asp Gln Leu Ile Glu Asn Ala
 35 40 45
 Ser Gly Gln Leu Val Cys Thr Ile Asp Ile Asn Ser Pro Cys Leu Leu
 50 55 60
 Leu Tyr Pro Leu Pro Glu Trp Glu Ile Ile Glu Gln Lys Leu Ser Arg
 65 70 75 80
 Leu Ser Ser Met Asn Pro Gln Glu Arg Arg Val Gln Arg Leu Leu Leu
 85 90 95
 Gly His Ala Ser Glu Cys Gln Met Asp Ser Ala Gly Arg Leu Leu Ile
 100 105 110
 Ala Pro Val Leu Arg Gln His Ala Gly Leu Thr Lys Glu Val Met Leu
 115 120 125
 Val Gly Gln Phe Asn Lys Phe Glu Leu Trp Asp Glu Thr Thr Trp Tyr
 130 135 140

Gln Gln Val Lys Glu Asp Ile Asp Ala Glu Gln Ser Asp Ser Glu Thr
 145 150 155 160
 Leu Ser Glu Arg Leu Arg Asp Leu Ser Leu
 165 170

<210> 9449

<211> 376

<212> PRT

<213> Enterobacter cloacae

<400> 9449

Cys Arg His Gly Arg Gly Cys Ala Arg Ile Thr Gly Glu Arg Asp Met
 1 5 10 15
 Leu Val Trp Leu Ala Glu His Leu Val Lys Tyr Tyr Ser Gly Phe Asn
 20 25 30
 Val Phe Ser Tyr Leu Thr Phe Arg Ala Ile Val Ser Leu Leu Thr Ala
 35 40 45
 Leu Phe Ile Ser Leu Trp Met Gly Pro Arg Met Ile Ala Arg Leu Gln
 50 55 60
 Lys Leu Ser Phe Gly Gln Val Val Arg Asn Asp Gly Pro Glu Ser His
 65 70 75 80
 Phe Ser Lys Arg Gly Thr Pro Thr Met Gly Gly Ile Met Ile Leu Thr
 85 90 95
 Ala Ile Val Val Ser Val Leu Leu Trp Ala Tyr Pro Ser Asn Pro Tyr
 100 105 110
 Val Trp Cys Val Leu Thr Val Leu Val Gly Tyr Gly Ile Ile Gly Phe
 115 120 125
 Val Asp Asp Tyr Arg Lys Val Val Arg Lys Asp Thr Lys Gly Leu Ile
 130 135 140
 Ala Arg Trp Lys Tyr Phe Trp Met Ser Val Ile Ala Leu Gly Val Ala
 145 150 155 160
 Phe Ala Leu Tyr Leu Ala Gly Lys Asp Thr Pro Ala Thr Glu Leu Val
 165 170 175
 Val Pro Phe Phe Lys Asp Val Met Pro Gln Leu Gly Leu Phe Tyr Ile
 180 185 190
 Leu Leu Ala Tyr Phe Val Ile Val Gly Thr Gly Asn Ala Val Asn Leu
 195 200 205
 Thr Asp Gly Leu Asp Gly Leu Ala Ile Met Pro Thr Val Phe Val Ala
 210 215 220
 Gly Gly Phe Ala Leu Val Ala Trp Ala Thr Gly Asn Met Asn Phe Ala
 225 230 235 240
 Asn Tyr Leu His Ile Pro Tyr Leu Arg His Ala Gly Glu Leu Val Ile
 245 250 255
 Val Cys Thr Ala Ile Val Gly Ala Gly Leu Gly Phe Leu Trp Phe Asn
 260 265 270
 Thr Tyr Pro Ala Gln Val Phe Met Gly Asp Val Gly Ser Leu Ala Leu
 275 280 285
 Gly Gly Ala Leu Gly Ile Ile Ala Val Leu Leu Arg Gln Glu Phe Leu
 290 295 300
 Leu Val Ile Met Gly Gly Val Phe Val Val Glu Thr Leu Ser Val Ile
 305 310 315 320
 Leu Gln Val Gly Ser Phe Lys Leu Arg Gly Gln Arg Ile Phe Arg Met
 325 330 335
 Ala Pro Ile His His Tyr Glu Leu Lys Gly Trp Pro Glu Pro Arg
 340 345 350
 Val Ile Val Arg Phe Trp Ile Ile Ser Leu Met Leu Val Leu Ile Gly
 355 360 365
 Leu Ala Thr Leu Lys Val Arg
 370 375

<210> 9450

<211> 369
 <212> PRT
 <213> Enterobacter cloacae

<400> 9450

Asn	Ala	Ser	Gly	Glu	Ser	Ser	Gly	Val	Tyr	Thr	Arg	Phe	Thr	Met	Asn
1			5						10					15	
Gln	Pro	Lys	Arg	Leu	Met	Val	Met	Ala	Gly	Gly	Thr	Gly	Gly	His	Val
		20						25					30		
Phe	Pro	Gly	Leu	Ala	Val	Ala	His	Leu	Met	Glu	Gln	Gly	Trp	Gln	
		35					40					45			
Val	Arg	Trp	Leu	Gly	Thr	Ala	Asp	Arg	Met	Glu	Ala	Asp	Leu	Val	Pro
		50					55				60				
Lys	His	Gly	Ile	Glu	Ile	Asp	Phe	Ile	Arg	Ile	Ser	Gly	Leu	Arg	Gly
65					70					75					80
Lys	Gly	Ile	Lys	Ala	Leu	Leu	Leu	Ala	Pro	Val	Arg	Ile	Phe	Asn	Ala
				85					90					95	
Trp	Arg	Gln	Ala	Arg	Ala	Ile	Met	Lys	Arg	Phe	Lys	Pro	Asp	Val	Val
			100					105					110		
Leu	Gly	Met	Gly	Gly	Tyr	Val	Ser	Gly	Pro	Gly	Gly	Leu	Ala	Ala	Trp
		115						120				125			
Ser	Leu	Gly	Ile	Pro	Val	Val	Leu	His	Glu	Gln	Asn	Gly	Ile	Ala	Gly
		130					135					140			
Leu	Thr	Asn	Lys	Trp	Leu	Ala	Lys	Ile	Ala	Thr	Lys	Val	Met	Gln	Ala
145					150					155					160
Phe	Pro	Gly	Ala	Phe	Pro	Lys	Ala	Asp	Val	Val	Gly	Asn	Pro	Val	Arg
				165					170					175	
Val	Asp	Val	Leu	Ala	Leu	Ala	Leu	Pro	Asp	Thr	Arg	Leu	Ala	Gly	Arg
			180					185					190		
Glu	Gly	Pro	Val	Arg	Val	Leu	Val	Val	Gly	Gly	Ser	Gln	Gly	Ala	Arg
		195						200				205			
Ile	Leu	Asn	Gln	Thr	Met	Pro	Gln	Val	Ala	Ala	Lys	Leu	Gly	Asp	Ala
		210				215						220			
Val	Thr	Ile	Trp	His	Gln	Ser	Gly	Lys	Gly	Ala	Gln	Gln	Thr	Val	Glu
225					230					235					240
Gln	Ala	Tyr	Ala	Gln	Glu	Gly	Gln	Pro	Gln	His	Lys	Val	Thr	Glu	Phe
				245						250				255	
Ile	Asp	Asp	Met	Ala	Ala	Ala	Tyr	Ala	Trp	Ala	Asp	Val	Val	Val	Cys
			260					265					270		
Arg	Ser	Gly	Ala	Leu	Thr	Val	Ser	Glu	Ile	Ala	Ala	Ala	Gly	Leu	Pro
		275						280					285		
Ala	Leu	Phe	Val	Pro	Phe	Gln	His	Lys	Asp	Arg	Gln	Gln	Tyr	Trp	Asn
		290				295					300				
Ala	Leu	Pro	Leu	Glu	Lys	Ala	Gly	Ala	Ala	Lys	Ile	Phe	Glu	Gln	Pro
305					310					315					320
Gln	Phe	Thr	Ala	Asp	Ala	Val	Ala	Thr	Thr	Leu	Ala	Gly	Trp	Asn	Arg
				325					330					335	
Asp	Val	Leu	Leu	Glu	Met	Ala	Gln	Arg	Ala	Arg	Ala	Thr	Ala	Ile	Pro
			340					345					350		
Asp	Ala	Thr	Glu	Arg	Val	Ala	Lys	Glu	Val	Ser	Leu	Ala	Ala	Gln	Ala
			355				360					365			

<210> 9451
 <211> 316
 <212> PRT
 <213> Enterobacter cloacae

<400> 9451

Ser Arg Lys Leu Arg Arg Thr Ser Val Met Ala Asp Lys Ile Ala Val

```

1           5           10           15
Leu Phe Gly Gly Thr Ser Ala Glu Arg Glu Val Ser Leu Asn Ser Gly
20
Ala Ala Val Leu Ala Gly Leu Arg Glu Gly Gly Val Asp Ala His Pro
35
Val Asp Pro Lys Glu Val Asp Val Thr Gln Leu Lys Ala Met Gly Phe
50
Asp Lys Ala Phe Ile Ala Leu His Gly Arg Gly Gly Glu Asp Gly Thr
65
Leu Gln Gly Leu Leu Glu Leu Ile Gly Ile Pro Tyr Thr Gly Ser Gly
80
Val Met Ala Ser Ala Ile Ser Met Asp Lys Leu Arg Ser Lys Leu Leu
95
100
Trp Gln Gly Ala Gly Leu Pro Val Ala Pro Trp Val Ala Thr Arg
115
Arg Glu Tyr Glu Leu Gly Leu Ser Asp Ser Val Asn Thr Arg Ile Ala
130
Ala Leu Gly Leu Pro Val Ile Val Lys Pro Ser Arg Glu Gly Ser Ser
145
Val Gly Met Ser Lys Val Asp Lys Ala Val Asp Leu Ala Asp Ala Leu
160
Ala Leu Ala Phe Gln His Asp Glu Glu Val Leu Ile Glu Lys Trp Leu
175
180
Ser Gly Pro Glu Phe Thr Val Ala Met Leu Gly Glu Glu Ile Leu Pro
195
Ser Ile Arg Ile Gln Pro Ala Gly Val Phe Tyr Asp Tyr Glu Ala Lys
210
Tyr Leu Ser Asp Glu Thr Gln Tyr Phe Cys Pro Ala Gly Leu Glu Ala
225
Glu Arg Glu Ala Glu Leu Gln Ser Leu Val Leu Lys Ala Trp Asn Val
240
Leu Gly Cys Arg Gly Trp Gly Arg Ile Asp Val Met Leu Asp Gly Asp
255
260
Gly Gln Phe Tyr Leu Leu Glu Ala Asn Thr Ser Pro Gly Met Thr Ser
275
His Ser Leu Val Pro Met Ala Ala Arg Gln Ala Gly Met Ser Phe Ser
290
Gln Leu Val Val Arg Ile Leu Asp Gln Ala Gly
305
310
315

```

<210> 9452

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 9452

```

Phe Ile Asp Thr Pro Pro Ala Gly Ala Ile Leu Ala Ala Lys Leu Leu
1           5           10           15
Pro Glu Thr Gly Gly Asp Thr Leu Trp Ala Ser Gly Ile Ala Ala Phe
20
Glu Ala Leu Ser Ala Pro Leu Gln Thr Leu Leu Ser Gly Gln Arg Ala
35
Glu Gln Asp Phe Lys Lys Ser Phe Gln Glu Asn Lys Asn Arg Lys Thr
50
Glu Glu Glu His Gln Arg Arg Gln Glu Ala Val Glu Lys His Pro Thr
65
Thr Ser Gln Gln His Pro Glu Glu Arg Thr His Pro Glu Thr Gly Lys
80
Gln Ala Gln Lys Glu Lys Glu Gly Lys Thr Thr Arg Ile Glu Asp Glu
95
100
Ala Glu Lys Glu Ser Glu Ala Gln Leu Gly Asn Gln Lys Ala Gln Ile
105

```

115 120 125
 Thr Lys Pro Glu Asn Gln Glu Arg Arg Arg Arg Gln Glu Asn Asp Gln
 130 135 140
 Ala Ile Arg Asp Asn Arg Val Thr Gln His
 145 150 155

<210> 9453

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 9453

Pro Ser Asp Arg Leu Val Lys Thr Ile Val Gln Ala Thr Gly Val Gly
 1 5 10 15
 Leu His Thr Gly Lys Lys Val Thr Leu Thr Leu Arg Pro Ala Pro Ala
 20 25 30
 Asn Thr Gly Val Ile Tyr Arg Arg Thr Asp Leu Asn Pro Pro Val Asp
 35 40 45
 Phe Pro Ala Asp Ala Lys Ser Val Arg Asp Thr Met Leu Cys Thr Cys
 50 55 60
 Leu Val Asn Glu His Asp Val Arg Ile Ser Thr Val Glu His Leu Asn
 65 70 75 80
 Ala Ala Leu Ala Gly Leu Gly Ile Asp Asn Ile Met Val Glu Val Asp
 85 90 95
 Ala Pro Glu Ile Pro Ile Met Asp Gly Ser Ala Ala Pro Phe Val Tyr
 100 105 110
 Leu Leu Leu Asp Ala Gly Ile Glu Leu Asn Cys Ala Lys Lys Phe
 115 120 125
 Val Arg Ile Lys Glu Thr Val Arg Val Glu Asp Gly Asp Lys Trp Ala
 130 135 140
 Glu Phe Lys Pro Tyr Asn Gly Phe Ser Leu Asp Phe Thr Ile Asp Phe
 145 150 155 160
 Asn His Pro Ala Ile Asp Ser Ser Thr Gln Arg Tyr Ala Met Asn Phe
 165 170 175
 Ser Ala Asp Ala Phe Met Arg Gln Ile Ser Arg Ala Arg Thr Phe Gly
 180 185 190
 Phe Met Arg Asp Ile Glu Tyr Leu Gln Ser Arg Gly Leu Cys Leu Gly
 195 200 205
 Gly Ser Phe Asp Cys Ala Ile Val Val Asp Asp Tyr Arg Val Leu Asn
 210 215 220
 Glu Asp Gly Leu Arg Phe Glu Asn Glu Phe Val Arg His Lys Met Leu
 225 230 235 240
 Asp Ala Ile

<210> 9454

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 9454

His Glu Val Ala Leu Ile Tyr Pro Gly Asp Pro Met Ala Ile Lys Leu
 1 5 10 15
 Ile Ala Ile Asp Met Asp Gly Thr Leu Leu Leu Pro Asp His Thr Ile
 20 25 30
 Ser Pro Ala Val Lys Asn Ala Ile Ala Ala Ala Arg Glu Lys Gly Val
 35 40 45
 Asn Val Val Leu Thr Thr Gly Arg Pro Tyr Ala Gly Val His Ser Tyr
 50 55 60
 Leu Lys Glu Leu His Met Asn Gln Pro Gly Asp Tyr Cys Ile Thr Tyr
 65 70 75 80

Asn Gly Ala Leu Val Gln Lys Ala Ala Asp Gly Ser Thr Val Ala Gln
 85 90 95
 Thr Ala Leu Ser Tyr Asp Asp Tyr Arg Phe Leu Glu Lys Leu Ser Arg
 100 105 110
 Asp Val Gly Ser His Phe His Ala Leu Asp Arg Asn Thr Leu Tyr Thr
 115 120 125
 Ala Asn Arg Asp Ile Ser Tyr Thr Val His Glu Ser Tyr Val Ala
 130 135 140
 Thr Ile Pro Leu Val Phe Cys Glu Ala Glu Lys Met Asp Pro Ala Thr
 145 150 155 160
 Gln Phe Leu Lys Val Met Met Ile Asp Glu Pro Ala Val Leu Asp Lys
 165 170 175
 Ala Ile Ser Arg Ile Pro Ala Glu Val Lys Glu Lys Tyr Thr Val Leu
 180 185 190
 Lys Ser Ala Pro Tyr Phe Leu Glu Ile Leu Asp Lys Arg Val Asn Lys
 195 200 205
 Gly Thr Gly Val Lys Ser Leu Ala Asp Ala Leu Gly Ile Lys Pro Glu
 210 215 220
 Glu Ile Met Ala Leu Gly Asp Gln Glu Asn Asp Ile Ala Met Ile Glu
 225 230 235 240
 Tyr Ala Gly Met Gly Val Ala Met Asp Asn Ala Ile Pro Ser Val Lys
 245 250 255
 Glu Val Ala Asn Phe Val Thr Lys Ser Asn Leu Glu Asp Gly Val Ala
 260 265 270
 Trp Ala Ile Glu Lys Phe Val Leu Ser
 275 280

<210> 9455

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 9455

Ser Ala Val Arg Cys Asp Thr Ala Ser Gly Arg Arg Cys Gly Arg Ala
 1 5 10 15
 Gly Gly Ala Asp His Asp Arg Gln Leu Asp Thr Lys Val Glu Gly Asn
 20 25 30
 His Met Thr Ser Arg Tyr Ile Ala Ile Asp Trp Gly Ser Thr Asn Leu
 35 40 45
 Arg Ala Trp Leu Tyr Gln Gly Glu Gln Cys Leu Glu Ser Arg Gln Ser
 50 55 60
 Glu Ala Gly Val Thr Arg Leu Asn Gly Lys Ser Pro Ala Ala Val Leu
 65 70 75 80
 Ala Glu Val Thr Gln Asn Trp Arg Asp Gly Thr Thr Pro Val Val Met
 85 90 95
 Ala Gly Met Val Gly Ser Asn Val Gly Trp Lys Val Ala Pro Tyr Leu
 100 105 110
 Ser Val Pro Val His Phe Thr Ala Val Gly Glu Gln Leu Thr Ser Val
 115 120 125
 Gly Asp Asn Val Trp Ile Ile Pro Gly Leu Cys Val Ser Arg Asp Asp
 130 135 140
 Asn His Asn Val Met Arg Gly Glu Glu Thr Gln Leu Leu Gly Ala Arg
 145 150 155 160
 Thr Leu Ser Pro Ser Ser Val Tyr Val Met Pro Gly Thr His Cys Lys
 165 170 175
 Trp Val Gln Ala Asp Ala Glu Gln Ile His Asp Phe Arg Thr Val Met
 180 185 190
 Thr Gly Glu Leu His His Leu Leu Leu Lys His Ser Leu Val Gly Thr
 195 200 205
 Gly Leu Pro Glu Gln Thr Pro Ser Pro Glu Ala Phe Ala Ala Gly Leu
 210 215 220

Glu Arg Gly Ile Ala Ser Pro Ala Val Leu Pro Gln Leu Phe Glu Val
 225 230 235 240
 Arg Ala Ser His Val Leu Gly Asn Leu Pro Arg Glu Gln Val Ser Glu
 245 250 255
 Phe Leu Ser Gly Leu Leu Ile Gly Ala Glu Val Ala Thr Leu Ser Asp
 260 265 270
 Ala Phe Ala Gly Gln Gln Ala Ile Thr Leu Val Ala Gly Ser Ser Leu
 275 280 285
 Thr Ser Arg Tyr Arg Gln Ala Phe His Ala Ile Gly Arg Asp Val Ala
 290 295 300
 Ala Val Glu Gly Asp Thr Ala Phe Gln Ala Gly Ile Arg Ser Ile Ala
 305 310 315 320
 His Ala Val Ala Asn
 325

<210> 9456

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 9456

Thr Gly Glu Asp Gly Leu Gln Ala Tyr Arg His Thr Glu Tyr Glu Pro
 1 5 10 15
 Arg Gly Asp Pro Pro Gly Gly Gly Val Arg His Asp Arg Leu Pro Gly
 20 25 30
 Leu Arg His Gly Tyr Arg Ser Leu Cys Arg Pro Arg Cys Arg Arg Thr
 35 40 45
 Val Ser Gln Asn Phe Pro Val Val Gly Leu Trp Ser Gly Leu His Gln
 50 55 60
 Ser Ala Glu Ser Gly Leu Thr Arg Gln Arg Ala Gly Leu Cys Arg Gly
 65 70 75 80
 Arg Arg His Ala Gly Lys Pro Gly Ala Val Asp Lys Ser Gly Leu Cys
 85 90 95
 Gly Arg Arg Ala Gly Gln Arg Ser Leu Ser Cys Arg Thr Ala Arg
 100 105 110

<210> 9457

<211> 401

<212> PRT

<213> Enterobacter cloacae

<400> 9457

Ala Tyr Arg Thr Ala Gly Gly Ser Ile Cys Glu Ser Val Ser Arg Gly
 1 5 10 15
 Ser Ala Met Lys Ile Thr Lys Leu Thr Thr Tyr Arg Leu Pro Pro Arg
 20 25 30
 Trp Met Phe Leu Lys Ile Glu Thr Asp Glu Gly Val Val Gly Trp Gly
 35 40 45
 Glu Pro Val Ile Glu Gly Arg Ala Arg Thr Val Glu Ala Ala Val His
 50 55 60
 Glu Leu Gly Glu Tyr Leu Ile Gly Gln Asp Pro Ala Arg Ile Asn Asp
 65 70 75 80
 Leu Trp Gln Val Met Tyr Arg Ala Gly Phe Tyr Arg Gly Gly Pro Ile
 85 90 95
 Leu Met Ser Ala Ile Ala Gly Ile Asp Gln Ala Leu Trp Asp Ile Lys
 100 105 110
 Gly Lys Val Leu Asn Ala Pro Val Trp Gln Leu Met Gly Gly Leu Val
 115 120 125
 Arg Asp Lys Ile Lys Ala Tyr Ser Trp Val Gly Gly Asp Arg Pro Ala
 130 135 140
 Glu Val Ile Asp Gly Ile Arg Gln Leu Arg Asn Ile Gly Phe Asp Thr

```

145          150          155          160
Phe Lys Leu Asn Gly Cys Glu Glu Met Gly Val Ile Asp Asn Ser Arg
165
Ala Val Asp Arg Ala Val Asn Thr Val Ala Gln Ile Arg Glu Ala Phe
180
Gly Asn Glu Ile Glu Phe Gly Leu Asp Phe His Gly Arg Val Ser Ala
195
Pro Met Ala Lys Val Leu Ile Lys Glu Leu Glu Pro Tyr Arg Pro Leu
210
Phe Ile Glu Glu Pro Val Leu Ala Glu Gln Ala Glu Tyr Tyr Pro Lys
225
Leu Ala Glu Gln Thr His Ile Pro Ile Ala Ala Gly Glu Arg Met Phe
245
Ser Arg Phe Glu Phe Lys Arg Val Leu Glu Ala Gly Gly Ile Ala Ile
260
Leu Gln Pro Asp Leu Ser His Ala Gly Gly Ile Thr Glu Cys Tyr Lys
275
Ile Ala Gly Met Ala Glu Ala Tyr Asp Val Ala Leu Ala Pro His Cys
290
Pro Leu Gly Pro Ile Ala Leu Ala Ala Cys Leu His Val Asp Phe Val
305
Ser Arg Asn Ala Val Phe Gln Glu Gln Ser Met Gly Ile His Tyr Asn
325
Lys Gly Ala Glu Leu Leu Asp Phe Val Lys Asn Lys Glu Asp Phe Ser
340
Met Glu Gly Gly Phe Phe Lys Pro Leu Thr Lys Pro Gly Leu Gly Val
355
Glu Ile Asp Glu Ala Lys Val Ile Glu Leu Ser Lys Ser Ala Pro Asp
370
Trp Arg Asn Pro Leu Trp Arg His Glu Asp Gly Ser Val Ala Glu Trp
385          390          395          400

```

<210> 9458

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 9458

```

Arg Ile Pro Phe Thr Phe Leu Ile Lys Lys Thr Lys Tyr Thr Leu Cys
1          5          10          15
Lys Leu Gln Gly Met Val Ser Gly Phe Ala Met Pro Lys Ile Trp Arg
20
Gln Ile Ala Met Asp Ile Pro Val Thr Ala Ala Lys Thr Gly Arg Arg
35
Arg Tyr Leu Thr Leu Ile Met Ile Phe Ile Thr Val Val Ile Cys Tyr
50
Val Asp Arg Ala Asn Leu Ala Val Ala Ser Ala His Ile Gln Glu Glu
65
Phe Gly Ile Thr Lys Ala Glu Met Gly Tyr Val Phe Ser Ala Phe Ala
85
Trp Leu Tyr Thr Leu Cys Gln Ile Pro Gly Gly Trp Phe Leu Asp Arg
100
Val Gly Ser Arg Leu Thr Tyr Phe Ile Ala Ile Phe Gly Trp Ser Val
115
Ala Thr Leu Phe Gln Gly Phe Ala Thr Gly Leu Met Ser Leu Ile Gly
130
Leu Arg Ala Ile Thr Gly Val Phe Glu Ala Pro Ala Phe Pro Thr Asn
145          150          155          160
Asn Arg Met Val Thr Ser Trp Phe Pro Glu His Glu Arg Ala Ser Ala

```

165 170 175
 Val Gly Phe Tyr Thr Ser Gly Gln Phe Val Gly Leu Ala Phe Leu Thr
 180 185 190
 Pro Leu Leu Ile Trp Ile Gln Glu Leu Leu Ser Trp His Trp Val Phe
 195 200 205
 Ile Val Thr Gly Gly Ile Gly Ile Ile Trp Ser Leu Ile Trp Phe Lys
 210 215 220
 Val Tyr Gln Pro Pro Arg Leu Thr Lys Ser Ile Thr Lys Ala Glu Leu
 225 230 235 240
 Asp Tyr Ile Arg Asp Gly Gly Gly Leu Val Asp Gly Asp Ala Pro Val
 245 250 255
 Lys Lys Glu Ala Arg Gln Pro Leu Thr Arg Ala Asp Trp Lys Leu Val
 260 265 270
 Phe His Arg Lys Leu Val Gly Val Tyr Leu Gly Gln Phe Ala Val Thr
 275 280 285
 Ser Thr Leu Trp Phe Phe Leu Thr Trp Phe Pro Asn Tyr Leu Thr Gln
 290 295 300
 Glu Lys Gly Ile Thr Ala Leu Lys Ala Gly Phe Met Thr Thr Val Pro
 305 310 315 320
 Phe Leu Ala Ala Phe Phe Gly Val Leu Leu Ser Gly Trp Leu Ala Asp
 325 330 335
 Lys Leu Val Lys Lys Gly Phe Ser Leu Gly Val Ala Arg Lys Thr Pro
 340 345 350
 Ile Ile Cys Gly Leu Leu Ile Ser Thr Cys Ile Met Gly Ala Asn Tyr
 355 360 365
 Thr Asn Asp Pro Val Trp Ile Met Thr Leu Met Ala Val Ala Phe Phe
 370 375 380
 Gly Asn Gly Phe Ala Ser Ile Thr Trp Ser Leu Val Ser Ser Leu Ala
 385 390 395 400
 Pro Met Arg Leu Ile Gly Leu Thr Gly Gly Val Phe Asn Phe Val Gly
 405 410 415
 Gly Leu Gly Gly Ile Thr Val Pro Leu Val Ile Gly Tyr Leu Ala Gln
 420 425 430
 Asp Tyr Gly Phe Gly Pro Ala Leu Val Tyr Ile Ser Ala Val Ala Leu
 435 440 445
 Ile Gly Ala Leu Ser Tyr Ile Leu Leu Val Gly Asp Val Lys Arg Val
 450 455 460
 Gly
 465

<210> 9459

<211> 427

<212> PRT

<213> Enterobacter cloacae

<400> 9459

Ser Leu Arg Met Phe Tyr Pro Asp Ala Ile Thr Ala His Gln Gly Ile
 1 5 10 15
 Phe Met Lys Gln Ile Thr Phe Ala Ser Arg Asn His Gln Leu Thr Asn
 20 25 30
 Ile Asn Thr Trp Thr Pro Asp Ser Gln Trp Leu Val Tyr Asp Val Arg
 35 40 45
 Pro Ser Gly Ala Ser Phe Thr Gly Glu Thr Ile Glu Arg Val Asn Val
 50 55 60
 Ser Thr Gly Glu Val Glu Ala Ile Tyr Arg Ala Thr Asp Gly Ala His
 65 70 75 80
 Val Gly Val Val Thr Val His Pro Ala Gln Asp Lys Tyr Val Phe Ile
 85 90 95
 His Gly Pro Lys Asn Pro Asp Ala Asp Trp Gln Tyr Asp Phe His His
 100 105 110
 Arg Gln Gly Val Ile Ala His Asn Gly Gln Val Ser Asn Leu Asp Ala

```

      115              120              125
Met Asp Ile Thr Ala Pro Tyr Thr Ala Gly Ala Leu Arg Gly Gly Thr
130              135              140
His Val His Val Phe Ser Pro Asn Gly Gln Phe Val Ser Phe Thr Tyr
145              150              155              160
Asn Asp His Val Leu His Ala Arg Asp Pro Gln Leu Asp Leu Arg Asn
      165              170              175
Val Gly Val Ala Ala Pro Phe Gly Pro Val Asn Pro Gln Gly Asn His
180              185              190
Pro Arg Glu Tyr Ala Gly Thr Phe Trp Ser Val Leu Val Ser Arg Thr
195              200              205
Thr Pro Asn Pro Lys Pro Gly Ser Asp Glu Val Asn Arg Ala Tyr Glu
210              215              220
Glu Gly Trp Val Gly Asn Asp Arg Leu Ala Phe Ile Gly Asp Thr Val
225              230              235              240
Ser Ala Lys Gly Glu Lys Val Pro Glu Leu Phe Ile Val Asp Leu Pro
      245              250              255
Lys Asp Glu Gln Gly Trp Lys Arg Ala Gly Asp Ala Pro Leu Gln Gly
260              265              270
Thr Pro Asp Thr Met Pro Ala Pro Pro Ala Gly Val Met Gln Arg Arg
275              280              285
Leu Thr Phe Thr His Gln Lys Ala Tyr Pro Gly Leu Val Asn Val Pro
290              295              300
Arg His Trp Val Arg Ser Asn Pro Gln Gly Thr Gln Val Ala Phe Leu
305              310              315              320
Met Arg Asp Asp Asn Gly Val Val Gln Leu Trp Leu Ile Ser Pro Glu
      325              330              335
Gly Gly Glu Pro Arg Gln Leu Thr His Ser Glu Ser Asp Ile Gln Ser
340              345              350
Ala Phe Asn Trp His Pro Ser Gly Arg Thr Leu Gly Phe Val Leu Glu
355              360              365
Ser Arg Ile Ala Cys Cys Asp Ala Gln Thr Gly Glu Val Thr Phe Leu
370              375              380
Thr Ser Asp His Gly Asn Pro Pro Ser Ala Asp Ala Val Val Phe Ser
385              390              395              400
Pro Asp Gly Arg Phe Ile Ala Trp Met Glu Ala Lys Asp Gly Phe Arg
      405              410              415
Gln Leu Trp Leu Thr Glu Thr Ala Gln Asn
420              425

```

<210> 9460

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 9460

```

Thr Val Pro Asn Ser Leu Leu Arg Arg Arg Phe Ser Met Arg Asn Tyr
1      5      10
Asp Phe Ser Pro Leu Leu Arg Gln Trp Ile Gly Phe Asp Lys Leu Ala
20      25
Asn Ala Leu Gln Ser Ala Thr Glu Gln Thr Phe Pro Pro Tyr Asn
35      40      45
Ile Glu Lys Ser Asp Asp Asn His Tyr Arg Ile Thr Leu Ala Leu Ala
50      55      60
Gly Phe Arg Gln Glu Asp Leu Asp Ile Gln Leu Glu Gly Ala Arg Leu
65      70      75      80
Thr Val Lys Gly Ser Pro Glu Lys Pro Asp Thr Glu Thr Lys Trp Leu
85      90      95
His Gln Gly Leu Val Thr Gln Pro Phe Ser Leu Ser Phe Thr Leu Ala
100      105      110
Asp His Met Glu Val Ser Gly Ala Thr Phe Thr Asn Gly Leu Leu Asn

```

115 120 125
 Ile Asp Leu Thr Arg Asn Val Pro Glu Ala Ile Ala Pro Gln Arg Ile
 130 135 140
 Ala Ile Ser Glu Arg Pro Ala Leu Asn Ser
 145 150 155

<210> 9461

<211> 617

<212> PRT

<213> *Enterobacter cloacae*

<400> 9461

Ser Cys Ala Gly Trp Cys Pro His Pro Asp Pro Leu Pro Val Gly Glu
 1 5 10 15
 Gly Ala Asn Thr Lys Asn Gly His Leu Arg Val Thr Val Leu Arg Leu
 20 25 30
 Pro Ser Ala Phe Leu Cys Ala Ile Ala His Thr Thr Ala Ala Ser Ser
 35 40 45
 Glu Arg Ile Leu Ile Ile Thr Lys Val Ile His Arg Met Trp Asn Met
 50 55 60
 Ser Asp Ile Ala Leu Thr Val Ser Val Leu Ala Leu Val Ala Val Val
 65 70 75 80
 Gly Leu Trp Leu Gly Asn Ile Lys Ile Arg Gly Val Gly Phe Gly Ile
 85 90 95
 Gly Gly Val Leu Phe Gly Gly Ile Phe Val Gly His Phe Ala Asp Gln
 100 105 110
 Leu Gly Trp Val Leu Ser Ala Asp Met Leu His Phe Ile Gln Glu Phe
 115 120 125
 Gly Leu Ile Leu Phe Val Tyr Thr Ile Gly Ile Gln Val Gly Pro Gly
 130 135 140
 Phe Phe Ala Ser Leu Arg Ile Ser Gly Leu Arg Leu Asn Leu Phe Ala
 145 150 155 160
 Phe Gly Ile Val Val Met Gly Gly Leu Val Thr Ala Ile Leu His Lys
 165 170 175
 Leu Phe Ala Ile Pro Leu Pro Val Val Leu Gly Ile Phe Ser Gly Ala
 180 185 190
 Val Thr Asn Thr Pro Ala Leu Gly Ala Gly Gln Gln Ile Leu Arg Asp
 195 200 205
 Leu Gly Ile Pro Ala Asp Val Val Asp Gln Met Gly Met Ser Tyr Ala
 210 215 220
 Met Ala Tyr Pro Phe Gly Ile Cys Gly Ile Leu Leu Ser Met Trp Leu
 225 230 235 240
 Val Arg Val Leu Phe Arg Val Asn Val Gly Gln Glu Ala Lys Glu His
 245 250 255
 Glu Ser Thr Leu Thr Asn Gly His Ala Leu Ile Lys Thr Ile Asn Ile
 260 265 270
 Arg Val Glu Asn Pro Asn Leu Asn Asn Met Ala Ile Gln Asp Val Pro
 275 280 285
 Ile Leu Asn Ser Ala Thr Ile Ile Cys Ser Arg Leu Lys Arg Asp Asp
 290 295 300
 Thr Leu Met Val Pro Ser Pro Asp Thr Leu Ile Gln His Gly Asp Leu
 305 310 315 320
 Leu His Leu Val Gly Gln Pro Ala Asp Leu Asn Asn Ala Arg Leu Val
 325 330 335
 Ile Gly Gln Glu Val Asp Thr Ser Leu Ser Thr Arg Gly Thr Asp Met
 340 345 350
 Arg Val Glu Arg Val Val Val Thr Asn Glu Lys Val Leu Gly Lys Lys
 355 360 365
 Ile Arg Asp Leu Gln Val Lys Glu Arg Tyr Asp Val Val Ile Ser Arg
 370 375 380
 Leu Asn Arg Ala Gly Val Glu Leu Val Ala Ser Gln Asp Ala Ser Leu

```

385          390          395          400
Gln Phe Gly Asp Ile Leu Asn Leu Val Gly Arg Pro Ser Ser Ile Asp
          405          410          415
Ala Val Ala Asp Met Val Gly Asn Ala Gln Gln Lys Leu Gln Val
          420          425          430
Gln Met Leu Pro Val Phe Ile Gly Val Gly Leu Gly Val Met Leu Gly
          435          440          445
Ser Ile Pro Leu Tyr Val Pro Gly Phe Pro Val Ala Leu Lys Leu Gly
          450          455          460
Leu Ala Gly Gly Pro Leu Ile Met Ala Leu Ile Leu Gly Arg Ile Gly
465          470          475          480
Ser Ile Gly Lys Leu Tyr Trp Phe Met Pro Pro Ser Ala Asn Leu Ala
          485          490          495
Leu Arg Glu Leu Gly Ile Val Leu Phe Leu Ala Val Val Gly Leu Lys
          500          505          510
Ser Gly Gly Asp Phe Val Asp Thr Leu Val Asn Gly Glu Gly Met Ser
          515          520          525
Trp Val Gly Tyr Gly Ile Phe Ile Thr Ala Ile Pro Leu Ile Thr Val
          530          535          540
Gly Leu Leu Ala Arg Met Phe Ala Lys Met Asn Tyr Leu Thr Leu Cys
545          550          555          560
Gly Met Leu Ala Gly Ser Met Thr Asp Pro Pro Ala Leu Ala Phe Ala
          565          570          575
Asn Asn Leu His Ala Thr Ser Gly Ala Ala Ala Leu Ser Tyr Ala Thr
580          585          590
Val Tyr Pro Leu Val Met Phe Leu Arg Ile Ile Thr Pro Gln Leu Leu
          595          600          605
Ala Val Leu Phe Trp Gly Met Gly
610          615

```

<210> 9462

<211> 558

<212> PRT

<213> Enterobacter cloacae

<400> 9462

```

Lys Thr Ile Lys Ala Ser Ile Pro Tyr Arg Leu Phe His Glu Asp Leu
1          5          10          15
Lys Met Leu Ser Gln Ile Gln Arg Phe Gly Gly Ala Met Phe Thr Pro
          20          25          30
Val Leu Leu Phe Pro Phe Ala Gly Ile Val Val Gly Ile Ala Ile Met
          35          40          45
Leu Arg Asn Pro Leu Phe Val Gly Glu Ala Leu Thr Ala Pro Asp Asn
50          55          60
Leu Phe Ala Gln Ile Val His Ile Ile Glu Glu Gly Gly Trp Ala Val
65          70          75          80
Phe Arg Asn Met Pro Leu Ile Phe Ala Val Gly Leu Pro Ile Gly Leu
          85          90          95
Ala Lys Gln Ala Gln Gly Arg Ala Cys Leu Ala Val Leu Ile Ser Phe
100          105          110
Leu Thr Trp Asn Tyr Phe Ile Asn Ala Met Gly Met Thr Trp Gly His
115          120          125
Phe Phe Gly Val Asp Phe Ser Ala Glu Pro Thr Ala Gly Ser Gly Leu
130          135          140
Ala Met Ile Ala Gly Ile Lys Thr Leu Asp Thr Ser Ile Ile Gly Ala
145          150          155          160
Ile Ile Ile Ser Gly Leu Val Thr Ala Ile His Asn Arg Phe Phe Asp
          165          170          175
Lys Pro Leu Pro Val Phe Leu Gly Ile Phe Gln Gly Thr Ser Phe Val
          180          185          190
Val Ile Leu Ala Phe Phe Val Met Ile Pro Cys Ala Trp Leu Thr Leu

```

```

      195              200              205
Leu Gly Trp Pro Lys Val Gln Met Gly Ile Glu Ser Leu Gln Ala Phe
  210      215      220
Leu Arg Thr Ala Gly Ala Leu Gly Val Trp Val Tyr Thr Phe Leu Glu
  225      230      235      240
Arg Ile Leu Ile Pro Thr Gly Leu His His Phe Val Tyr Gly Pro Phe
      245      250      255
Ile Phe Gly Pro Ala Ala Val Glu Gly Gly Ile Gln Val Tyr Trp Ala
  260      265      270
Gln His Leu Gln Glu Phe Ser Gln Ser Thr Val Pro Leu Lys Thr Leu
  275      280      285
Phe Pro Glu Gly Gly Phe Ala Leu His Gly Asn Ser Lys Val Phe Gly
  290      295      300
Ser Val Gly Ile Ala Leu Ala Ile Trp Tyr Thr Ala Ser Pro Glu Asn
  305      310      315      320
Arg Val Lys Val Ala Gly Leu Leu Ile Pro Ala Thr Leu Thr Ala Val
      325      330      335
Leu Val Gly Ile Thr Glu Pro Leu Glu Phe Thr Phe Leu Phe Ile Ser
  340      345      350
Pro Leu Leu Phe Ala Ile His Ala Val Leu Ala Ala Thr Met Ala Thr
  355      360      365
Val Met Tyr Ile Phe Gly Val Val Gly Asn Met Gly Gly Gly Leu Leu
  370      375      380
Asp Gln Phe Leu Pro Gln Asn Trp Ile Pro Met Phe His Asn His Ala
  385      390      395      400
Ser Thr Val Phe Thr Gln Ile Gly Ile Gly Leu Cys Phe Thr Gly Ile
      405      410      415
Tyr Phe Val Val Phe Arg Thr Leu Ile Glu Arg Leu Asn Leu Lys Thr
  420      425      430
Pro Gly Arg Glu Glu Ser Glu Ile Lys Leu Tyr Ser Lys Ala Asp Tyr
  435      440      445
Lys Ala Ala Arg Gly Gln Thr Thr Ala Pro Ala Ala Ala Ser Gln Gln
  450      455      460
Val Gly Gln Ala Ala Gly Phe Leu Gln Ala Leu Gly Gly Ala Ala Asn
  465      470      475      480
Ile Glu Ser Ile Asn Asn Cys Ala Thr Arg Leu Arg Ile Ala Leu Val
      485      490      495
Asp Met Thr Lys Thr Gln Ser Asp Asp Val Phe Lys Ala Leu Gly Ala
  500      505      510
His Gly Val Val Arg Arg Gly Asn Gly Ile Gln Val Ile Val Gly Leu
  515      520      525
His Val Pro Gln Val Arg Asp Gln Leu Glu Ser Leu Met Lys Thr Pro
  530      535      540
Leu Thr Asn Glu Gln Thr Thr Leu Thr Glu Ala Ile Ser
  545      550      555

```

<210> 9463

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 9463

```

Tyr Val Ser Ser Arg Ser Asp Asn Glu Arg Lys Gln Glu Cys Ala Ala
  1      5      10      15
Lys Cys Lys His Arg Gly Asp Lys Arg Arg Arg Arg Ile Val Phe Glu
  20      25      30
Gly Leu Ile Gln Gly Arg Ala Ala Val Leu Leu Asn Gln Pro Glu Glu
  35      40      45
Arg Ile Gly His Asp Arg Ala Ala Asn Ser Ala Gly Pro Asp Gly Asn
  50      55      60
Gly Asp Asp Leu Arg Ala Tyr Val Arg Val Glu Arg Gln His Arg Arg

```

65					70					75				80
His	Tyr	Arg	Arg	Gly	Thr	His	His	Arg	Tyr	Arg	Cys	Arg	Thr	His Gly
				85					90				95	
Gly	Val	Gln	His	Gln	Cys	His	Gln	Pro	Gly	Glu	Lys	Asp	Arg	Val His
			100					105					110	
Met	Gln	Val	Arg	Glu	Asn	Met	Arg	Gln	Arg	Leu	Arg	Gln	Thr	Thr Gly
			115				120					125		
Phe	Lys	Asp	Gly	Val	Glu	Arg	Pro	Ala	Arg	Thr	Asp	Asn	Gln	Gln Asn
	130					135					140			
Val	Gly	Asp	Arg	Ala	Lys	Ala	Val	Leu	Arg	Met	Gly	Gln	His	Cys Ala
145					150					155				160
His	Ala	His	Val	Leu	Ala	Asp	Pro	Gln	Gln	Val	Ile	Gly	Asp	Lys His
				165				170					175	
Gly	Asp	Lys	His	Arg	Gly	Asp	Gly	Val	Ala	Asp	Lys	Leu	Gln	Gln Gly
			180				185						190	
Ile	Gln	Arg	Ala	Phe	Phe	Arg	His	Val	Gln	Leu	Gly	Asn	Gly	Phe His
	195						200					205		
Gln	His	Gln	Gly	Asn	Arg	Gln	Gln	His	Gly	Glu	Gln	Arg	Gly	Ala Gln
	210					215					220			
Arg	Arg	Gln	Ser	Val	Leu	Phe	Pro	His	Leu	Gln	Val			
225					230					235				

<210> 9464

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 9464

Thr	Gln	Lys	Leu	Arg	Val	Gly	Ile	Val	Met	Thr	Asp	Ala	Asn	Glu Gly
1				5					10				15	
Arg	Asn	Arg	Leu	Leu	Asn	Gly	Trp	Gln	Leu	Ser	Lys	Met	Tyr	Phe
			20					25					30	
Glu	Val	Ala	Ala	Arg	His	Glu	Ser	Phe	Ala	Leu	Ala	Ala	Glu	Leu
	35						40				45			
Ser	Leu	Ser	Pro	Ser	Ala	Val	Ser	His	Arg	Ile	Asn	Leu	Leu	Glu Glu
	50					55					60			
Glu	Leu	Gly	Ile	Gln	Leu	Phe	Val	Arg	Ser	His	Arg	Lys	Val	Glu Leu
65				70					75					80
Thr	Gln	Glu	Gly	Lys	Arg	Val	Tyr	Trp	Thr	Leu	Lys	Ser	Ser	Leu Asp
			85						90				95	
Thr	Leu	Asn	Gln	Glu	Ile	Leu	Asp	Ile	Lys	Asn	Gln	Ala	Leu	Ser Gly
			100					105					110	
Thr	Leu	Thr	Val	Tyr	Ser	Arg	Pro	Ser	Ile	Ala	Gln	Cys	Trp	Leu Val
			115				120					125		
Pro	Met	Leu	Gly	Asp	Phe	Thr	Arg	Arg	Tyr	Pro	Ser	Ile	Ser	Leu Thr
	130					135					140			
Ile	Leu	Thr	Gly	Asn	Asp	Tyr	Val	Asn	Met	Gln	Arg	Thr	Gly	Ile Asp
145				150					155					160
Leu	Ala	Leu	Tyr	Phe	Asp	Asp	Thr	Pro	Pro	Asn	His	Leu	Ser	His His
				165				170					175	
Phe	Leu	Met	Asp	Glu	Glu	Ile	Leu	Pro	Val	Cys	Ser	Pro	Ala	Tyr Ala
			180					185					190	
Arg	Glu	His	Glu	Leu	Leu	Lys	Asn	Pro	His	Asn	Leu	Ser	His	Cys Thr
	195						200				205			
Leu	Leu	His	Asp	Arg	Gln	Ala	Trp	Ser	Asn	Asp	Ser	Gly	Thr	Asp Glu
	210				215					220				
Trp	Leu	Ser	Trp	Ala	Gln	His	Phe	Ala	Val	Asn	Met	Pro	Leu	Ser Ser
225					230				235					240
Gly	Ile	Gly	Phe	Asp	Arg	Ser	Asp	Leu	Ala	Ile	Ile	Ala	Ala	Met Ser
				245				250					255	
Asn	Val	Gly	Val	Ala	Met	Gly	Arg	Lys	Arg	Leu	Val	Gln	Lys	Arg Leu


```
<210> 9465
<211> 372
<212> PRT
<213> Enterobacter cloacae
```

400>	9465															
Thr	Val	Leu	Lys	Pro	Phe	Ile	Ala	Thr	Ala	Ile	Leu	Leu	Ser	Ser	Gly	
1				5					10					15		
Trp	Ala	Thr	Ala	Ala	Glu	Pro	Pro	Leu	Thr	Ala	Ala	Arg	Tyr	Ala	Gln	
			20					25					30			
Met	Leu	Gly	Val	Gly	Met	Asp	Val	Asp	Trp	Ala	Arg	Thr	Glu	Arg	Gly	
		35					40					45				
Ile	Arg	Glu	Phe	Asp	Pro	Leu	Val	Val	Arg	Asp	Phe	Gln	Ala	Lys	Gly	
	50					55					60					
Ile	His	His	Val	Arg	Ile	Arg	Val	Ala	Gly	Glu	Pro	Thr	Glu	Ala	Arg	
65					70					75					80	
Leu	Ile	His	Leu	Arg	Lys	Leu	Val	Glu	Ala	Cys	Glu	Gln	Tyr	Gly	Val	
				85					90					95		
Ile	Pro	Ile	Ile	Ala	Tyr	Gln	Ala	Asp	Glu	Tyr	Lys	Asn	Asp	Pro	Lys	
			100					105					110			
Ala	Asp	Thr	Glu	Lys	Glu	Val	Ile	Asn	Trp	Trp	Ile	Ala	Val	Ala	His	
			115				120					125				
Tyr	Phe	Gly	Gln	Arg	Ser	Pro	Leu	Leu	Gly	Phe	Asp	Leu	Ile	Tyr	Glu	
	130					135					140					
Pro	Ala	Asp	Lys	Leu	Asn	His	Asn	Val	Ala	Ser	Leu	Asn	Arg	Val	Tyr	
145					150					155					160	
Glu	Lys	Ala	Ile	Lys	Asp	Ile	His	Ala	Ile	Asp	Ala	Ser	Arg	Met	Ile	
				165					170					175		
Phe	Ile	Ala	Pro	Arg	Leu	Arg	Ala	Ala	Pro	Glu	Asp	Leu	Ser	Thr	Leu	
			180					185					190			
Lys	Leu	Pro	Ala	His	Ser	Gln	Asn	Tyr	Leu	Leu	Ala	Glu	Trp	His	Ile	
			195				200					205				
Phe	Pro	Trp	Gly	Pro	Leu	Lys	Thr	Asn	Gly	Lys	Tyr	Pro	Trp	Thr	Ser	
	210					215					220					
Gly	Thr	Ala	Ala	Glu	Lys	Ala	Ala	Ile	Arg	Asn	Arg	Ile	Asn	Ala	Ala	
225					230					235				240		
Leu	His	Trp	Gln	Gln	Lys	Thr	Gly	His	Val	Ser	Trp	Val	Gly	Gly	Trp	
				245					250					255		
Gly	Val	Gly	Glu	Ser	Lys	Ser	Leu	Thr	Pro	Thr	Ala	Ser	Gln	Met	Ala	
			260					265					270			
Phe	Ala	Thr	Phe	Met	Ala	Cys	Glu	Leu	Gln	His	Ala	Asn	Ile	Pro	Tyr	
			275				280					285				
Ala	Ile	Asn	Ala	Asp	Val	Gln	Phe	Tyr	Asp	Gly	Glu	Glu	Gly	Ala	Trp	
	290					295					300					
Arg	Pro	Ala	Pro	Glu	Arg	Leu	Leu	Gln	Ala	Met	Ile	Ala	Pro	Val	Cys	
305					310					315					320	
Glu	Lys	Pro	Gly	Glu	Lys	Pro	Gly	His	His	Ala	Val	Lys	Pro	Ala	Val	
				325												

370

<210> 9466

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 9466

Gly Glu Arg Met Val Trp Ile Met Leu Ala Thr Leu Ala Val Val Phe
 1 5 10 15
 Val Val Gly Phe Arg Val Leu Thr Ser Asp Ser Arg Arg Ala Ile Lys
 20 25 30
 Arg Leu Ser Glu Arg Leu Gly Ile Thr Pro Met Pro Val Glu Ser Met
 35 40 45
 Ile Asp Gln Phe Gly Lys Thr Pro Gly Asn Glu Phe Ile Arg Tyr Leu
 50 55 60
 Glu Arg Pro Asp Glu Ala His Leu Gln Asn Ala Ala Gln Val Leu Leu
 65 70 75 80
 Ile Trp Gln Val Cys Ile Val Asp Gly Ser Glu Glu Asn Leu His Thr
 85 90 95
 Trp His Arg Met Leu Arg Lys Ala Arg Leu Ala Ala Pro Ile Thr Asp
 100 105 110
 Ala Gln Ile Arg Leu Ala Leu Gly Phe Met Arg Glu Ile Glu Pro Asp
 115 120 125
 Pro Gln Glu Leu Asp Ala Phe Gln Leu Arg Tyr Asn Gln Leu Phe Leu
 130 135 140
 Pro Glu Glu Gly Val Phe Tyr Leu His
 145 150

<210> 9467

<211> 411

<212> PRT

<213> Enterobacter cloacae

<400> 9467

Thr Ala Arg Leu Phe Arg Thr Phe Leu Ser Ser Gly Asp Ala Met Thr
 1 5 10 15
 Glu His Ile Gln Pro Thr Thr Arg Pro Gln Thr Lys Glu Val Ser Arg
 20 25 30
 Pro Asn Trp Ser Ala Val Phe Ser Val Ala Phe Cys Val Ala Cys Leu
 35 40 45
 Ile Thr Val Glu Phe Leu Pro Val Ser Leu Leu Thr Pro Met Ala Gln
 50 55 60
 Asp Leu Gly Ile Ser Glu Gly Val Ala Gly Gln Ser Val Thr Val Thr
 65 70 75 80
 Ala Phe Val Ala Met Phe Ala Ser Leu Phe Ile Thr Gln Ala Ile Gly
 85 90 95
 Thr Ile Asp Arg Arg Lys Val Val Ile Leu Phe Ser Val Leu Leu Thr
 100 105 110
 Leu Ser Cys Leu Leu Val Ser Phe Ala Glu Ser Phe Thr Leu Leu Leu
 115 120 125
 Leu Gly Arg Ala Cys Leu Gly Leu Gly Leu Gly Gly Phe Trp Ala Met
 130 135 140
 Ser Ala Ser Leu Thr Met Arg Leu Val Pro Ala Arg Thr Val Pro Lys
 145 150 155 160
 Ala Leu Ser Val Ile Phe Gly Ala Val Ser Ile Ala Leu Val Ile Ala
 165 170 175
 Ala Pro Leu Gly Ser Phe Leu Gly Gly Ile Ile Gly Trp Arg Asn Val
 180 185 190
 Phe Asn Ala Ala Val Met Gly Val Leu Cys Ile Ile Trp Val Trp
 195 200 205

Lys Ala Leu Pro Ser Leu Pro Gly Glu Ala Ala His His Lys Gln Asn
 210 215 220
 Met Phe Ala Leu Leu Lys Arg Pro Gly Val Leu Ala Gly Met Thr Ala
 225 230 235 240
 Ile Phe Met Ala Phe Ala Gly Gln Phe Ala Phe Phe Thr Tyr Ile Arg
 245 250 255
 Pro Val Tyr Met Thr Met Ala Gly Phe Asp Val Asp Gly Leu Thr Leu
 260 265 270
 Val Leu Leu Ser Phe Gly Ile Ala Ser Phe Val Gly Thr Ser Leu Ser
 275 280 285
 Ser Gln Phe Leu Lys Arg Ser Leu Lys Val Ala Leu Ala Gly Ala Pro
 290 295 300
 Leu Val Leu Ala Ile Ser Ala Ala Val Leu Val Leu Trp Gly Ser Asp
 305 310 315 320
 Lys Trp Val Ala Ser Ala Ile Ala Ile Ile Trp Gly Phe Ala Phe Ala
 325 330 335
 Leu Val Pro Val Gly Trp Ser Thr Trp Ile Thr Arg Ser Leu Ala Asp
 340 345 350
 Gln Ala Glu Lys Ala Gly Ser Ile Gln Val Ala Val Ile Gln Leu Ala
 355 360 365
 Asn Thr Cys Gly Ala Ala Val Gly Gly Val Ala Leu Asp His Leu Gly
 370 375 380
 Leu Thr Ser Pro Leu Val Ile Ser Gly Thr Leu Met Leu Leu Thr Ala
 385 390 395 400
 Leu Leu Val Ala Gly Lys Val Lys Ala Lys
 405 410

<210> 9468

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 9468

Arg Cys Arg Ile Thr Val Gly Cys Leu Cys Cys Tyr Ala Asn Glu Thr
 1 5 10 15
 Val Met Ser Leu Thr Arg Leu Leu Ile Arg Asp Phe Arg Asn Ile Glu
 20 25 30
 Ser Ala Asp Leu Ala Leu Ser Pro Gly Phe Asn Phe Leu Val Gly Ala
 35 40 45
 Asn Gly Ser Gly Lys Thr Ser Val Leu Glu Ala Ile Tyr Thr Leu Gly
 50 55 60
 His Gly Arg Ala Phe Arg Ser Leu Gln Ile Gly Arg Val Ile Arg His
 65 70 75 80
 Glu Gln Asp Ser Phe Val Leu His Gly Arg Leu Gln Gly Glu Glu Arg
 85 90 95
 Glu Thr Ala Ile Gly Leu Thr Lys Asp Lys Gln Gly Asp Ser Lys Val
 100 105 110
 Arg Ile Asp Gly Thr Asp Gly His Lys Val Ala Glu Leu Ala Leu Leu
 115 120 125
 Met Pro Met Gln Leu Ile Thr Pro Glu Gly Phe Thr Leu Leu Asn Gly
 130 135 140
 Gly Pro Lys Tyr Arg Arg Ala Phe Leu Asp Trp Gly Cys Phe His Asn
 145 150 155 160
 Glu Ala Gly Phe Phe Asn Ala Trp Ser Asn Leu Lys Arg Leu Leu Lys
 165 170 175
 Gln Arg Asn Ala Ala Leu Arg Gln Val Thr Arg Tyr Ala Gln Leu Arg
 180 185 190
 Pro Trp Asp Met Glu Leu Ile Pro Leu Ala Glu Gln Ile Ser Arg Trp
 195 200 205
 Arg Ala Glu Tyr Ser Ala Gly Ile Ala Glu Asp Met Ala Asp Thr Cys
 210 215 220

Lys Gln Phe Leu Pro Glu Phe Ser Leu Thr Phe Ser Phe Gln Arg Gly
 225 230 235 240
 Trp Glu Lys Glu Thr Asp Tyr Ala Glu Val Leu Glu Arg Ser Phe Glu
 245 250 255
 Arg Asp Arg Met Leu Thr Tyr Thr Ala His Gly Pro His Lys Ala Asp
 260 265 270
 Phe Arg Ile Arg Ala Asp Gly Ala Pro Val Glu Asp Thr Leu Ser Arg
 275 280 285
 Gly Gln Leu Lys Leu Leu Met Cys Ala Leu Arg Leu Ala Gln Gly Glu
 290 295 300
 Phe Leu Thr Arg Glu Ser Gly Arg Arg Cys Leu Tyr Leu Ile Asp Asp
 305 310 315 320
 Phe Ala Ser Glu Leu Asp Asp Ala Arg Arg Gly Leu Leu Ala Ser Arg
 325 330 335
 Leu Lys Ala Thr Gln Ser Gln Val Phe Val Ser Ala Ile Ser Ala Glu
 340 345 350
 His Val Met Asp Met Ser Asp Glu Asn Ser Lys Met Phe Thr Val Glu
 355 360 365
 Lys Gly Lys Ile Thr Asp
 370 375

<210> 9469

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 9469

Gln Glu Lys Lys Met Thr Ala Thr Met Gln Arg Trp Ser Met Asp Ala
 1 5 10 15
 Leu Gly Arg Glu Ser Leu Arg Leu Val Gln Glu Pro Val Pro Gln Pro
 20 25 30
 Gly Ser Gly Glu Val Arg Val Arg Val Asn Ala Val Ala Leu Asn Tyr
 35 40 45
 Arg Asp Lys Met Val Ile Glu Gly Thr Met Pro Ile Pro Leu Ser Phe
 50 55 60
 Pro Phe Thr Pro Ala Ser Asp Met Ala Gly Val Val Asp Ser Ile Gly
 65 70 75 80
 Glu Gly Val Thr Arg Phe Lys Pro Gly Ala Arg Val Ile Ser Thr Phe
 85 90 95
 Phe Pro Glu Trp Ile Asp Gly Lys Pro Gln Ala Asp Ala Arg Asp Leu
 100 105 110
 Pro Tyr Lys Thr Ser Gly Gly Tyr Phe Gln Gly Met Leu Ala Glu Tyr
 115 120 125
 Val Ile Val Ser Glu Asn Ala Leu Val Ala Ser Pro Glu Ser Leu Asp
 130 135 140
 Asp Ala Glu Ala Ser Thr Leu Pro Cys Ala Gly Leu Thr Ala Trp Phe
 145 150 155 160
 Ala Leu Val Glu Arg Gly His Leu Arg Ala Gly Gln Ser Val Leu Val
 165 170 175
 Gln Gly Thr Gly Gly Val Ala Leu Phe Ala Leu Gln Ile Ala Lys Ala
 180 185 190
 His Gly Ala Glu Val Phe Val Ser Ser Gly Ser Asp Glu Lys Leu Ala
 195 200 205
 Arg Ala Lys Lys Leu Gly Ala Ser Gln Gly Ile Asn Arg Leu Lys Gly
 210 215 220
 Asp Trp Ala Glu Asn Thr Leu Ala Leu Thr Gln Asp Arg Gly Ile Asp
 225 230 235 240
 His Ile Ile Glu Thr Val Gly Gly Glu Asn Leu Arg His Ser Leu Arg
 245 250 255
 Ala Val Ala Val His Gly Arg Ile Ser Val Ile Gly Val Leu Ala Gly
 260 265 270

Thr Glu Ile Ser Leu Pro Ala Ser Glu Leu Leu Leu Lys Ser Pro Val
 275 280 285
 Ile Gln Gly Ile Gly Val Gly His Arg Arg Ala Leu Glu Asp Phe Val
 290 295 300
 Arg Ala Val Asp Val Thr Glu Leu Lys Pro Val Ile Glu His Arg Tyr
 305 310 315 320
 Arg Phe Asp Glu Leu Glu Gln Ala Leu Glu His Leu Asp Arg Gly Ala
 325 330 335
 Phe Gly Lys Ile Val Leu Thr Arg Glu
 340 345

<210> 9470

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 9470

Trp Thr Tyr Arg Ala Gln Gly Leu Ser Met Thr Leu Asn Lys Thr Asp
 1 5 10 15
 Arg Ile Val Ile Thr Leu Gly Thr Gln Ile Val Gly Gly Lys Tyr Val
 20 25 30
 Pro Gly Ser Pro Leu Pro Ala Glu Ala Glu Leu Cys Glu Glu Phe Glu
 35 40 45
 Thr Ser Arg Asn Ile Ile Arg Glu Val Phe Arg Ser Leu Met Ala Lys
 50 55 60
 Arg Leu Ile Glu Met Lys Arg Tyr Arg Gly Ala Phe Val Ala Pro Arg
 65 70 75 80
 Asn Gln Trp Asn Tyr Leu Asp Thr Asp Val Leu Gln Trp Val Leu Glu
 85 90 95
 Asn Asp Tyr Asp Pro Arg Leu Ile Gly Ala Met Ser Glu Val Arg Asn
 100 105 110
 Leu Val Glu Pro Ala Ile Ala Arg Trp Ala Ala Glu Arg Ala Thr Ser
 115 120 125
 Gly Asp Leu Ala Gln Ile Glu Ser Ala Leu Asn Asp Met Ile Ala Asn
 130 135 140
 Asn Gln Asn Arg Glu Ala Phe Asn Glu Ala Asp Ile Arg Tyr His Glu
 145 150 155 160
 Ala Val Leu Gln Ser Val His Asn Pro Val Leu Gln Gln Leu Ser Val
 165 170 175
 Ala Ile Ser Ser Leu Gln Arg Ala Val Phe Glu Arg Thr Trp Met Gly
 180 185 190
 Asp Glu Ala Asn Met Pro Lys Thr Leu Gln Glu His Lys Ala Leu Phe
 195 200 205
 Asp Ala Ile Arg His Gln Asp Gly Asp Ala Ala Glu Gln Ala Ala Leu
 210 215 220
 Thr Met Ile Ala Ser Ser Thr Arg Arg Leu Lys Glu Ile Thr
 225 230 235

<210> 9471

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 9471

Gly Ala Ser Leu Met Gln Trp Gln Thr Glu Leu Pro Leu Ile Ala Ile
 1 5 10 15
 Leu Arg Gly Ile Thr Pro Gly Glu Ala Leu Ala His Val Gly Ala Val
 20 25 30
 Ile Asp Ala Gly Phe Asp Ala Val Glu Ile Pro Leu Asn Ser Pro Glu
 35 40 45
 Trp Glu Lys Ser Ile Pro Ala Ile Val Lys Ala Phe Gly Asp Lys Ala

50 55 60
 Leu Ile Gly Ala Gly Thr Val Leu Gln Pro Glu Gln Val Asp Glu Leu
 65 70 75 80
 Ala Lys Met Gly Cys Lys Leu Ile Val Thr Pro Asn Met Asn Pro Glu
 85 90 95
 Val Ile Arg Arg Ala Val Glu Tyr Gly Met Thr Val Cys Pro Gly Cys
 100 105 110
 Ala Thr Ala Thr Glu Ala Phe Ala Ala Leu Asp Ala Gly Ala Gln Ser
 115 120 125
 Leu Lys Ile Phe Pro Ser Ser Ala Phe Gly Pro Asp Tyr Ile Lys Ala
 130 135 140
 Leu Lys Ala Val Leu Pro Ala Ser Val Pro Val Phe Ala Val Gly Gly
 145 150 155 160
 Val Thr Pro Glu Asn Leu Val Gln Trp Ile Lys Ala Gly Cys Val Gly
 165 170 175
 Ala Gly Leu Gly Ser Asp Leu Tyr Arg Ala Gly Gln Pro Val Glu Arg
 180 185 190
 Thr Ala Gln Gln Ala Ala Ala Phe Val Lys Ala Tyr Arg Glu Ala Val
 195 200 205
 Gln
 210

<210> 9472

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 9472

Ser Leu His Ala Ala Arg Gln Gly Thr Phe Met Asn Ile Ser Arg Leu
 1 5 10 15
 Gly Glu Ala Pro Asp Tyr Arg Phe Ser Leu Ala Asn Glu Arg Thr Phe
 20 25 30
 Leu Ala Trp Ile Arg Thr Ala Leu Gly Phe Leu Ala Ala Gly Val Gly
 35 40 45
 Leu Asp Gln Leu Ala Pro Asp Phe Ala Thr Pro Leu Ile Arg Glu Val
 50 55 60
 Leu Ala Leu Leu Leu Cys Leu Ile Ala Gly Val Leu Ala Ile Tyr Gly
 65 70 75 80
 Tyr Leu Arg Trp Leu Arg Asn Glu Lys Ala Met Arg Leu Lys Gln Asp
 85 90 95
 Leu Pro Tyr Thr Arg Gly Leu Leu Ile Ile Ser Thr Ile Leu Leu Met
 100 105 110
 Val Ala Gly Val Val Met Leu Leu Val Leu Tyr Ala Gly
 115 120 125

<210> 9473

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 9473

Thr Ile Thr Val Pro Thr Ser Ala Pro Asn Leu Leu Val Thr Asn Ser
 1 5 10 15
 Ala Ala Gly Cys Gly Gly Thr Thr Gln Cys Thr Ala Ile Ser Ala Val
 20 25 30
 Gln Ser Gly Met Ala Ser Leu Ser Ser Asp Val Leu Val Phe Leu Ala
 35 40 45
 Met Glu Asn Ala Ser Gly Ile Ser Ser Thr Thr Pro Thr Ser Thr Asn
 50 55 60
 Ser Val Met Pro Gln Ile Arg Pro Thr Arg Thr Ile Ile Thr Ser Ala
 65 70 75 80

Asp Ser Gln Arg Gln Arg Cys Asn Val Ile Pro Met Arg Ser Ala Ala
 85 90 95
 Pro Glu Thr Ser Ile Ile Leu Pro Arg Ile Val Pro Arg Pro Ile Thr
 100 105 110
 Ala Ala Arg Lys Pro Ser Val Pro Pro Ile Pro Leu Ser Met Ala Leu
 115 120 125
 Thr Ile Ser Ser Gly Leu Ile Pro Ile Ile Ala Pro Thr Lys Lys Leu
 130 135 140
 Ala Ser Ser Ser Ala Arg Asn Gly
 145 150

<210> 9474

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 9474

Gly Glu Glu Met Met Ile Val Ala Asp Ala Met Lys Ala Thr His Ala
 1 5 10 15
 Leu Val Ala Ala Val Pro Leu Leu Gly Glu Gln Pro Ser Glu Lys Asp
 20 25 30
 Tyr Lys Asp Ala Leu Glu Leu Val Glu Tyr Leu Leu Met Asn Glu Pro
 35 40 45
 Asn Ser Pro Leu Leu Asp Ile Val Cys Ala Arg Ile Ser Arg Tyr Glu
 50 55 60
 Ala Asn Arg Pro Glu Ile Val Ala Leu Arg Lys Glu Met Glu Ser Val
 65 70 75 80
 Pro Val Gly Ile Ala Val Leu Arg Thr Leu Met Asp Gln Tyr Asn Leu
 85 90 95
 Thr Ile Ser Asp Phe Lys Asp Glu Ile Gly Ser Lys Ser Met Val Ser
 100 105 110
 Arg Val Leu Asn Gly Gln Arg Gln Leu Thr Leu Asn His Ile Lys Lys
 115 120 125
 Leu Ala Ala Arg Phe Gly Val Ser Pro Ala Leu Phe Ile Glu
 130 135 140

<210> 9475

<211> 577

<212> PRT

<213> Enterobacter cloacae

<400> 9475

Thr Thr Thr Arg Lys Ala Gly Ser Glu Glu Lys Asp Trp Ser Met Ala
 1 5 10 15
 Ser Ser Gly Thr Thr Ser Thr Lys Thr Arg Phe Thr Gly Ala Gln Leu
 20 25 30
 Ile Val His Leu Leu Glu Arg Gln Gly Ile Thr Thr Val Ala Gly Ile
 35 40 45
 Pro Gly Gly Thr Val Leu Pro Leu Tyr Asp Ala Leu Ser Gln Ser Thr
 50 55 60
 Gln Ile Arg His Val Leu Ala Arg His Glu Gln Gly Ala Gly Phe Ile
 65 70 75 80
 Ala Gln Gly Met Ala Arg Thr Gln Gly Lys Pro Ala Val Cys Met Ala
 85 90 95
 Cys Ser Gly Pro Gly Ala Thr Asn Leu Val Thr Ala Ile Ala Asp Ala
 100 105 110
 Arg Leu Asp Ser Ile Pro Leu Ile Cys Ile Thr Gly Gln Val Pro Ser
 115 120 125
 Ser Met Ile Gly Thr Asp Ala Phe Gln Glu Val Asp Thr Tyr Gly Ile
 130 135 140
 Ser Ile Pro Ile Thr Lys His Asn Tyr Leu Val Arg Asp Ile Ser Glu

```

145          150          155          160
Leu Pro Gln Val Ile Ser Asp Ala Phe Arg Ile Ala Gln Ser Gly Arg
165          170          175
Pro Gly Pro Val Trp Ile Asp Ile Pro Lys Asp Val Gln Thr Ala Glu
180          185
Ile Glu Ile Asp Ile Leu Pro Glu Pro Gly Glu Arg Ala Pro Ala Pro
195          200
Glu Phe Ser Ala Glu Ser Val Arg Asp Ala Ala Ala Met Ile Asn Ala
210          215          220
Ala Lys Arg Pro Val Leu Tyr Leu Gly Gly Gly Ala Ile Asn Ala Ala
225          230          235
Asp Glu Ile Arg Gln Phe Ala Glu Lys Ala Asn Leu Pro Thr Thr Met
245          250          255
Thr Leu Met Ala Leu Gly Met Leu Pro Lys Ala His Pro Leu Ser Leu
260          265          270
Gly Met Leu Gly Met His Gly Ala Arg Ser Thr Asn Tyr Ile Leu Gln
275          280          285
Glu Ala Asp Leu Leu Ile Val Met Gly Ala Arg Phe Asp Asp Arg Ala
290          295          300
Ile Gly Lys Thr Glu Gln Phe Cys Pro Asn Ala Lys Ile Ile His Val
305          310          315
Asp Ile Asp Arg Ala Glu Leu Gly Lys Ile Lys Gln Pro His Val Ala
325          330          335
Ile Gln Gly Asp Val Ala Glu Val Leu Ala Gln Leu Ile Pro Gln Thr
340          345          350
Val Ala Thr Asp Arg Ala Asp Trp Arg Gln Leu Val Ala Asp Leu Gln
355          360          365
Arg Glu Phe Pro Gly Ala Ile Pro Thr Glu Gly Asp Pro Leu Ser His
370          375          380
Tyr Gly Leu Ile Asn Ala Val Ala Ala Cys Val Asp Asp Ser Ala Ile
385          390          395
Ile Thr Thr Asp Val Gly Gln His Gln Met Trp Thr Ala Gln Ala Tyr
405          410          415
Pro Leu Asn Arg Pro Arg Gln Trp Leu Thr Ser Gly Gly Leu Gly Thr
420          425          430
Met Gly Phe Gly Leu Pro Ala Ala Val Gly Ala Ala Leu Ala Asn Pro
435          440          445
Asp Arg Lys Val Ile Cys Phe Ser Gly Asp Gly Ser Leu Met Met Asn
450          455          460
Ile Gln Glu Met Ala Thr Ala Ala Glu Asn Gln Leu Asp Val Lys Ile
465          470          475
Ile Leu Met Asn Asn Glu Ala Leu Gly Leu Val His Gln Gln Gln Ser
485          490          495
Leu Phe Tyr Lys Gln Gly Val Phe Ala Ala Thr Tyr Pro Gly Met Ile
500          505          510
Asn Phe Met Gln Ile Ala Ala Gly Phe Gly Leu His Thr Cys Asp Leu
515          520          525
Asn Ala Glu Glu Asp Ala His Ala Ala Leu Gln Asp Ala Ile Ser Arg
530          535          540
Pro Gly Pro Ala Leu Ile His Val Arg Ile Asp Pro Glu Gln Lys Val
545          550          555
Tyr Pro Met Val Pro Pro Gly Ala Ala Asn Thr Glu Met Val Gly Glu
565          570          575

```

<210> 9476

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 9476

Ala	Met	Gln	Lys	Gln	His	Asp	Asn	Val	Ile	Leu	Glu	Leu	Thr	Val	Arg
1				5					10					15	
Asn	His	Pro	Gly	Val	Met	Thr	His	Val	Cys	Gly	Leu	Phe	Ala	Arg	Arg
			20					25					30		
Ala	Phe	Asn	Val	Glu	Gly	Ile	Leu	Cys	Leu	Pro	Ile	Gln	Gly	Ser	Glu
		35					40					45			
His	Ser	Arg	Ile	Trp	Leu	Leu	Val	Asn	Asp	Asp	Gln	Arg	Leu	Glu	Gln
	50				55					60					
Met	Ile	Ala	Gln	Ile	Asp	Lys	Leu	Glu	Asp	Val	Thr	Lys	Val	Ala	Arg
65				70					75					80	
Asn	Gln	Ser	Asp	Pro	Thr	Met	Phe	Asn	Lys	Ile	Ala	Val	Phe	Phe	Glu
				85					90					95	

<210> 9477

<211> 505

<212> PRT

<213> Enterobacter cloacae

<400> 9477

Gln	Leu	Ala	Met	Asn	Ser	Leu	Phe	Ser	Arg	Leu	Ile	Ala	Val	Val	Ala
1				5					10					15	
Ser	Phe	Phe	Ile	Phe	Ser	Ala	Ala	Trp	Phe	Cys	Leu	Trp	Ser	Ile	Ser
			20					25					30		
Leu	His	Leu	Val	Glu	Arg	Pro	Glu	Leu	Ala	Val	Leu	Leu	Phe	Pro	Phe
		35					40					45			
Gly	Leu	Arg	Leu	Gly	Leu	Met	Leu	Gln	Cys	Pro	Arg	Gly	Tyr	Trp	Pro
	50				55					60					
Val	Leu	Leu	Gly	Ala	Glu	Trp	Leu	Met	Leu	Ile	Trp	Leu	Ala	Gln	Glu
65				70					75					80	
Val	Ala	Leu	Ala	His	Leu	Pro	Leu	Leu	Met	Thr	Gly	Ser	Leu	Leu	Thr
				85				90					95		
Leu	Ile	Pro	Val	Ala	Leu	Ile	Ser	Arg	Tyr	Arg	His	Gln	Arg	Asp	Trp
		100					105					110			
Arg	Thr	Leu	Leu	Arg	Gln	Gly	Ala	Ala	Leu	Ile	Ala	Ala	Ala	Leu	Leu
		115				120					125				
Gln	Ser	Leu	Pro	Trp	Val	Gly	Glu	Lys	Glu	Val	Leu	Asn	Ala	Leu	Leu
	130					135					140				
Leu	Thr	Leu	Thr	Gly	Gly	Leu	Thr	Leu	Ala	Pro	Thr	Cys	Leu	Val	Ile
145				150					155					160	
Trp	His	Tyr	Leu	Thr	Ser	Thr	Val	Trp	Gln	Pro	Leu	Gly	Pro	Ala	Leu
			165					170					175		
Val	Ser	Gln	Pro	Val	Asn	Trp	Arg	Ala	Arg	His	Leu	Ile	Trp	Tyr	Leu
		180					185					190			
Leu	Leu	Phe	Val	Val	Ser	Leu	Trp	Leu	Gln	Leu	Gly	Leu	Pro	Ala	Glu
		195					200				205				
Leu	Ser	Arg	Phe	Thr	Pro	Phe	Cys	Leu	Ala	Leu	Pro	Ile	Ile	Ala	Leu
	210					215					220				
Ala	Trp	His	Tyr	Gly	Trp	Gln	Gly	Ala	Leu	Ile	Ala	Thr	Leu	Met	Asn
225				230						235				240	
Ala	Ile	Ala	Leu	Ile	Ala	Ser	Gln	Thr	Trp	His	Asp	His	Pro	Val	Asp
			245					250					255		
Leu	Leu	Leu	Ser	Leu	Leu	Ala	Gln	Ser	Leu	Thr	Gly	Leu	Leu	Leu	Gly
		260					265					270			
Ala	Gly	Ile	Gln	Arg	Leu	Arg	Glu	Leu	Asn	Gln	Ser	Leu	Gln	Asn	Glu
	275						280					285			
Leu	Ala	Arg	Asn	Arg	Arg	Leu	Ala	Glu	Arg	Leu	Leu	Glu	Thr	Glu	Glu
	290					295					300				
Ser	Val	Arg	Gln	Glu	Val	Ala	Arg	Glu	Leu	His	Asp	Asp	Ile	Gly	Gln

305 310 315 320
 Thr Ile Thr Ala Ile Arg Thr Gln Ala Gly Ile Val Gln Arg Leu Ala
 325 330 335
 Ala Glu Asn Ala Gly Val Lys Gln Gly Gly Ala His Ile Glu Gln Leu
 340 345 350
 Ser Leu Gly Val Tyr Asp Ser Val Arg Arg Leu Leu Gly Arg Leu Arg
 355 360 365
 Pro Arg Gln Leu Asp Asp Leu Ser Leu Glu Gln Ala Val Arg Ser Leu
 370 375 380
 Met Arg Glu Met Glu Leu Glu Ser Arg Gly Ile Val Ser His Leu Asp
 385 390 395 400
 Trp Arg Ile Ser Glu Pro Ala Leu Ser Glu Gly Gln Arg Val Thr Leu
 405 410 415
 Phe Arg Val Cys Gln Glu Gly Leu Asn Asn Ile Val Lys His Ala Ser
 420 425 430
 Ala Ser Ala Val Thr Ile Gln Gly Trp Gln Gln Asp Glu Arg Leu Met
 435 440 445
 Leu Val Ile Glu Asp Asp Gly Cys Gly Leu Pro Pro Gly Ser Gly Gln
 450 455 460
 Gln Gly Phe Gly Leu Ala Gly Met Arg Glu Arg Val Lys Ala Leu Gly
 465 470 475 480
 Gly Thr Leu Ser Leu Ser Cys Thr His Gly Thr Arg Val Ser Val Ser
 485 490 495
 Leu Pro Leu Arg Thr His His Val
 500 505

<210> 9478

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 9478

Arg Arg Ala Cys Met Leu Thr Arg Arg Leu Ser Cys Leu Ala Leu Leu
 1 5 10 15
 Met Ala Leu Ala Ser Pro Ala Met Ala Ala Asn Ala Pro Thr Tyr Gly
 20 25 30
 Glu Lys Leu Glu Gly Phe Asp Tyr Gly Trp Pro Val Lys His Phe Thr
 35 40 45
 Phe Thr Ser Gln Asn Gln Pro Leu Asp Met Ala Tyr Leu Asp Val Lys
 50 55 60
 Pro Glu Lys Pro Asn Gly Arg Thr Val Val Leu Met His Gly Lys Asn
 65 70 75 80
 Phe Cys Ala Gly Thr Trp Asp Gly Thr Ile Arg Ala Leu Ser Ala Ser
 85 90 95
 Gly Tyr Arg Val Ile Ala Pro Asp Gln Ile Gly Phe Cys Lys Ser Thr
 100 105 110
 Lys Pro Glu His Tyr Gln Tyr Thr Phe Gln Gln Leu Ala Asp Asn Thr
 115 120 125
 His Ala Leu Leu Lys Thr Leu Gly Val Asp Arg Val Thr Val Ile Gly
 130 135 140
 His Ser Thr Gly Gly Met Leu Ala Thr Arg Tyr Ala Leu Met Trp Pro
 145 150 155 160
 Gln Gln Val Glu Gln Leu Val Met Val Asn Pro Ile Gly Leu Glu Asp
 165 170 175
 Trp Lys Ala Arg Gly Val Pro His Ile Thr Val Asp Gln Trp Tyr Gln
 180 185 190
 Arg Glu Leu Lys Val Ser Ala Asp Gly Ile Arg Gln Tyr Glu Lys Asn
 195 200 205
 Thr Tyr Tyr Ala Gly Glu Trp Lys Pro Glu Tyr Glu Arg Trp Val Thr
 210 215 220
 Met Leu Ala Gly Leu Asn Asn Gly Pro Gly Lys Glu Arg Val Ala Trp

225 230 235 240
 Asn Ser Ala Leu Leu Tyr Asp Met Ile Tyr Thr Gln Pro Val Ile Tyr
 245 250 255
 Glu Phe Ser Glu Leu Ser Met Pro Val Leu Leu Met Ile Gly Thr Lys
 260 265 270
 Asp Asn Thr Ala Ile Gly Lys Asp Leu Ala Pro Pro Glu Ile Arg Lys
 275 280 285
 Thr Leu Gly Asn Tyr Ala Val Leu Gly Lys Glu Thr Ala Lys Arg Ile
 290 295 300
 Pro His Ala Thr Leu Val Glu Phe Asn Asp Met Gly His Ala Pro Gln
 305 310 315 320
 Met Gln Asp Pro Glu Arg Phe His Glu Ala Leu Leu Lys Gly Leu Gln
 325 330 335
 Ala Arg

<210> 9479

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 9479

Thr Met Lys Gln Ser Ala Ile Ile Trp Pro Asn Asp Tyr Leu Pro Gly
 1 5 10 15
 Thr Thr Asp Asn Phe Ala Ser Asn Glu Ile Ile Val Ala Gly Leu Ser
 20 25 30
 Ala Lys Glu Ile Trp Ala Gln Leu Asn Asp Thr Thr Leu Trp Pro Asn
 35 40 45
 Tyr Tyr Ser Asn Ala Glu Asp Ile Arg Phe His Asp Gly Ser Gly Pro
 50 55 60
 Glu Leu Ser Ala Asn Ala Arg Phe Arg Phe Thr Thr Phe Gly Phe Pro
 65 70 75 80
 Val Glu Ala Gln Val Thr Glu Tyr Val Pro Pro Val Asp Gly Glu Ala
 85 90 95
 Ala Arg Ile Ala Trp His Gly Trp Val Glu Gly Asp Ala Ser Ser Arg
 100 105 110
 Leu Asp Val Ile His Ala Trp Leu Phe Glu Asp Leu Pro Gly Asn Arg
 115 120 125
 Val Arg Ile Leu Thr Gln Glu Ser Gln Lys Gly Val Pro Ala Gln Glu
 130 135 140
 Leu Ala Arg Thr Val Pro Asn Pro Met Ile Asn Gly His Gln Glu Trp
 145 150 155 160
 Ile Val Gly Leu Ala Asn Ala Ala Met Gln Glu Lys Leu Ser Lys Arg
 165 170 175

<210> 9480

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 9480

Pro Pro Arg Thr Tyr Glu Trp Leu Ala Gly Ala Val Gly Asn Lys Pro
 1 5 10 15
 Leu Gln Gln Val Ser Gly Pro Leu Gly Gly Arg Pro Thr Leu Pro Ile
 20 25 30
 Leu Gly Asn Leu Leu Leu Gln Val Ala Asp Gly Thr Leu Ser Leu Thr
 35 40 45
 Gly Thr Asp Leu Glu Met Glu Met Ile Ala Arg Val Thr Leu Thr Gln
 50 55 60

```

Pro His Asp Ala Gly Ala Thr Thr Val Pro Ala Arg Lys Phe Phe Asp
65      70      75      80
Ile Cys Arg Gly Leu Pro Glu Gly Ala Glu Ile Ala Val Gln Leu Glu
      85      90      95
Gly Asp Arg Met Leu Val Arg Ser Gly Arg Ser Arg Phe Ser Leu Ser
      100      105      110
Thr Leu Pro Ala Ala Asp Phe Pro Asn Leu Asp Asp Trp Gln Ser Glu
      115      120      125
Val Glu Phe Thr Leu Pro Gln Ala Thr Met Lys Arg Leu Ile Glu Ala
      130      135      140
Thr Gln Phe Ser Met Ala His Gln Asp Val Arg Tyr Tyr Leu Asn Gly
      145      150      155      160
Met Leu Phe Glu Thr Glu Gly Glu Glu Leu Arg Thr Val Ala Thr Asp
      165      170      175
Gly His Arg Leu Ala Val Cys Ser Met Pro Ile Gly Asp Ser Leu Pro
      180      185      190
Asn His Ser Val Ile Val Pro Arg Lys Gly Val Ile Glu Leu Met Arg
      195      200      205
Met Leu Asp Gly Gly Asp Thr Pro Leu Arg Val Gln Ile Gly Ser Asn
      210      215      220
Asn Ile Arg Ala His Val Gly Asp Phe Val Phe Thr Ser Lys Leu Val
      225      230      235      240
Asp Gly Arg Phe Pro Asp Tyr Arg Arg Val Leu Pro Lys Asn Pro Asp
      245      250      255
Lys Thr Leu Glu Ala Gly Cys Asp Ile Leu Lys Gln Ala Phe Ala Arg
      260      265      270
Ala Ala Ile Leu Ser Asn Glu Lys Phe Arg Gly Val Arg Leu Tyr Val
      275      280      285
Ser Glu Asn Gln Ile Lys Ile Thr Ala Asn Asn Pro Glu Gln Glu Glu
      290      295      300
Ala Glu Glu Ile Leu Asp Val Thr Tyr Ala Gly Ala Glu Met Glu Ile
      305      310      315      320
Gly Phe Asn Val Ser Tyr Val Leu Asp Val Leu Asn Ala Leu Lys Cys
      325      330      335
Glu Asn Val Arg Ile Leu Leu Thr Asp Ser Val Ser Ser Val Gln Ile
      340      345      350
Glu Asp Ala Ala Ser Gln Ser Ala Ala Tyr Val Val Met Pro Met Arg
      355      360      365
Leu
      370

```

<210> 9481

<211> 810

<212> PRT

<213> Enterobacter cloacae

<400> 9481

```

Asn Glu Arg Glu Thr Leu Met Ser Asn Ser Tyr Asp Ser Ser Ser Ile
1      5      10      15
Lys Val Leu Lys Gly Leu Asp Ala Val Arg Lys Arg Pro Gly Met Tyr
      20      25      30
Ile Gly Asp Thr Asp Asp Gly Thr Gly Leu His His Met Val Phe Glu
      35      40      45
Val Val Asp Asn Ala Ile Asp Glu Ala Leu Ala Gly His Cys Lys Asp
      50      55      60
Ile Val Val Thr Ile His Ala Asp Asn Ser Val Ser Val Thr Asp Asp
      65      70      75      80
Gly Arg Gly Ile Pro Thr Gly Ile His Pro Glu Glu Gly Val Ser Ala
      85      90      95
Ala Glu Val Ile Met Thr Val Leu His Ala Gly Gly Lys Phe Asp Asp
      100      105      110

```

Asn	Ser	Tyr	Lys	Val	Ser	Gly	Gly	Leu	His	Gly	Val	Gly	Val	Ser	Val
		115					120					125			
Val	Asn	Ala	Leu	Ser	Gln	Lys	Leu	Glu	Leu	Val	Ile	Gln	Arg	Glu	Gly
		130				135					140				
Lys	Ile	His	Arg	Gln	Ile	Tyr	Gln	His	Gly	Val	Pro	Glu	Ala	Pro	Leu
145				150					155					160	
Ala	Val	Thr	Gly	Asp	Thr	Glu	Lys	Thr	Gly	Thr	Met	Val	Arg	Phe	Trp
			165						170					175	
Pro	Ser	Leu	Glu	Thr	Phe	Thr	Asn	Val	Thr	Glu	Phe	Glu	Tyr	Asp	Ile
		180					185					190			
Leu	Ala	Lys	Arg	Leu	Arg	Glu	Leu	Ser	Phe	Leu	Asn	Ser	Gly	Val	Ser
		195					200					205			
Ile	Arg	Leu	Arg	Asp	Lys	Arg	Asp	Asn	Lys	Glu	Asp	His	Phe	His	Tyr
		210				215					220				
Glu	Gly	Gly	Ile	Lys	Ala	Phe	Val	Glu	Tyr	Leu	Asn	Lys	Asn	Lys	Thr
225				230					235					240	
Pro	Ile	His	Pro	Asn	Ile	Phe	Tyr	Phe	Ser	Thr	Glu	Lys	Asp	Gly	Ile
				245					250					255	
Gly	Val	Glu	Val	Ala	Leu	Gln	Trp	Asn	Asp	Gly	Phe	Gln	Glu	Asn	Ile
			260					265					270		
Tyr	Cys	Phe	Thr	Asn	Asn	Ile	Pro	Gln	Arg	Asp	Gly	Gly	Thr	His	Leu
		275					280					285			
Ala	Gly	Phe	Arg	Ala	Ala	Met	Thr	Arg	Thr	Leu	Asn	Ala	Tyr	Met	Asp
		290				295					300				
Lys	Glu	Gly	Tyr	Ser	Lys	Lys	Ala	Lys	Val	Ser	Ala	Thr	Gly	Asp	Asp
305				310					315					320	
Ala	Arg	Glu	Gly	Leu	Ile	Ala	Val	Val	Ser	Val	Lys	Val	Pro	Asp	Pro
				325					330					335	
Lys	Phe	Ser	Ser	Gln	Thr	Lys	Asp	Lys	Leu	Val	Ser	Ser	Glu	Val	Lys
			340					345					350		
Ser	Ala	Val	Glu	Gln	Gln	Met	Asn	Glu	Leu	Leu	Ser	Glu	Tyr	Leu	Leu
		355					360					365			
Glu	Asn	Pro	Ser	Asp	Ala	Lys	Ile	Val	Val	Gly	Lys	Ile	Ile	Asp	Ala
		370				375					380				
Ala	Arg	Ala	Arg	Glu	Ala	Ala	Arg	Lys	Ala	Arg	Glu	Met	Thr	Arg	Arg
385				390					395					400	
Lys	Gly	Ala	Leu	Asp	Leu	Ala	Gly	Leu	Pro	Gly	Lys	Leu	Ala	Asp	Cys
			405						410					415	
Gln	Glu	Arg	Asp	Pro	Ala	Leu	Ser	Glu	Leu	Tyr	Leu	Val	Glu	Gly	Asp
			420					425					430		
Ser	Ala	Gly	Gly	Ser	Ala	Lys	Gln	Gly	Arg	Asn	Arg	Lys	Asn	Gln	Ala
		435					440					445			
Ile	Leu	Pro	Leu	Lys	Gly	Lys	Ile	Leu	Asn	Val	Glu	Lys	Ala	Arg	Phe
		450				455					460				
Asp	Lys	Met	Leu	Ser	Ser	Gln	Glu	Val	Ala	Thr	Leu	Ile	Thr	Ala	Leu
465				470					475					480	
Gly	Cys	Gly	Ile	Gly	Arg	Asp	Glu	Tyr	Asn	Pro	Asp	Lys	Leu	Arg	Tyr
			485						490					495	
His	Ser	Ile	Ile	Ile	Met	Thr	Asp	Ala	Asp	Val	Asp	Gly	Ser	His	Ile
		500						505					510		
Arg	Thr	Leu	Leu	Leu	Thr	Phe	Phe	Tyr	Arg	Gln	Met	Pro	Glu	Ile	Val
		515					520					525			
Glu	Arg	Gly	His	Val	Tyr	Ile	Ala	Gln	Pro	Pro	Leu	Tyr	Lys	Val	Lys
		530				535					540				
Lys	Gly	Lys	Gln	Glu	Gln	Tyr	Ile	Lys	Asp	Asp	Asp	Ala	Met	Asp	Gln
545				550					555					560	
Tyr	Gln	Ile	Ala	Ile	Ala	Leu	Asp	Gly	Ala	Thr	Leu	His	Ala	Asn	Ser
			565						570					575	
Ser	Ala	Pro	Ala	Leu	Ala	Gly	Glu	Pro	Leu	Glu	Arg	Leu	Val	Ser	Glu
		580						585					590		
Phe	Asn	Ala	Thr	Gln	Lys	Met	Ile	Gly	Arg	Met	Glu	Arg	Arg	Tyr	Pro

595 600 605
 Lys Ala Leu Leu Lys Glu Leu Ile Tyr Gln Pro Thr Leu Thr Glu Ala
 610 615 620
 Asp Leu Ser Asn Glu Gln Thr Val Thr Arg Trp Val Asn Thr Leu Val
 625 630 635 640
 Ser Glu Leu Asn Glu Lys Glu Gln His Gly Ser Gln Trp Lys Phe Asp
 645 650 655
 Val Gln Gln Asn Ala Glu Gln Gln Phe Glu Pro Ile Val Arg Val Arg
 660 665 670
 Thr His Gly Val Asp Thr Asp Tyr Pro Leu Glu His Glu Phe Val Thr
 675 680 685
 Gly Pro Glu Tyr Arg Arg Ile Cys Thr Leu Gly Glu Lys Leu Arg Gly
 690 695 700
 Leu Ile Glu Asp Asp Ala Phe Ile Glu Arg Gly Glu Arg Arg Gln Pro
 705 710 715 720
 Val Ala Ser Phe Glu Gln Ala Leu Glu Trp Leu Val Lys Glu Ser Arg
 725 730 735
 Arg Gly Leu Ser Ile Gln Arg Tyr Lys Gly Leu Gly Glu Met Asn Pro
 740 745 750
 Asp Gln Leu Trp Glu Thr Thr Met Asp Pro Glu Ser Arg Arg Met Leu
 755 760 765
 Arg Val Thr Val Lys Asp Ala Ile Ala Ala Asp Gln Leu Phe Thr Thr
 770 775 780
 Leu Met Gly Asp Ala Val Glu Pro Arg Arg Ala Phe Ile Glu Glu Asn
 785 790 795 800
 Ala Leu Lys Ala Ala Asn Ile Asp Ile
 805 810

<210> 9482

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 9482

Phe Gln Glu His Leu Ser Met Arg Asn Phe Asp Leu Ser Pro Leu Tyr
 1 5 10 15
 Arg Ser Ala Ile Gly Phe Asp Arg Leu Phe Asn His Leu Glu Asn Asn
 20 25 30
 Gln Ser Gln Ser Asn Gly Tyr Pro Pro Tyr Asn Val Glu Leu Val Asp
 35 40 45
 Glu Asn His Tyr Arg Ile Ala Ile Ala Val Ala Gly Phe Ala Glu Ser
 50 55 60
 Glu Leu Glu Ile Thr Ala Gln Asp Asn Leu Leu Val Val Lys Gly Ser
 65 70 75 80
 His Ala Gly Glu Gln Lys Glu Arg Thr Tyr Leu Tyr Gln Gly Ile Ala
 85 90 95
 Glu Arg Asn Phe Glu Arg Lys Phe Gln Leu Ala Glu Asn Ile His Val
 100 105 110
 Lys Gly Ala Asn Leu Val Asn Gly Leu Leu Phe Ile Glu Leu Glu Arg
 115 120 125
 Val Ile Pro Glu Glu Lys Lys Pro Arg Arg Ile Glu Ile Asn
 130 135 140

<210> 9483

<211> 493

<212> PRT

<213> Enterobacter cloacae

<400> 9483

Arg Ile Gln Ser Pro Gly Arg Thr Arg Cys Gly Ala Ala Arg Gln Arg
 1 5 10 15

His	Thr	Gly	Asp	Cys	Arg	Ser	Ala	Arg	Ser	Ser	Gly	Ala	Arg	Pro	Ala	
			20					25					30			
Gly	Ile	Ala	Asp	Glu	Asn	Pro	Phe	Asn	Lys	Arg	Thr	Asn	His	Ser	Asp	
		35					40					45				
Arg	Gly	Tyr	Ile	Met	Lys	Lys	Phe	Ser	Val	Val	Ile	Ala	Gly	Gly	Gly	
	50				55					60						
Ser	Thr	Phe	Thr	Pro	Gly	Ile	Val	Leu	Met	Leu	Leu	Ala	Asn	Arg	Asp	
65					70				75					80		
Arg	Phe	Pro	Leu	Arg	Ala	Leu	Lys	Phe	Tyr	Asp	Asn	Asp	Gly	Ala	Arg	
			85					90					95			
Gln	Glu	Ile	Ile	Ala	Glu	Ala	Cys	Lys	Ile	Ile	Leu	Lys	Glu	Gln	Ala	
		100						105					110			
Pro	Glu	Ile	Glu	Phe	Ser	Tyr	Thr	Thr	Asp	Pro	Glu	Ala	Ala	Phe	Thr	
	115						120					125				
Asp	Val	Asp	Phe	Val	Met	Ala	His	Ile	Arg	Val	Gly	Lys	Tyr	Pro	Met	
	130				135					140						
Arg	Glu	Lys	Asp	Glu	Lys	Ile	Pro	Leu	Arg	His	Gly	Val	Leu	Gly	Gln	
145					150				155						160	
Glu	Thr	Cys	Gly	Pro	Gly	Gly	Ile	Ser	Tyr	Gly	Met	Arg	Ser	Ile	Gly	
			165					170						175		
Gly	Val	Leu	Glu	Leu	Val	Asp	Tyr	Met	Glu	Gln	Tyr	Ser	Pro	Asn	Ala	
		180					185						190			
Trp	Met	Leu	Asn	Tyr	Ser	Asn	Pro	Ala	Ala	Ile	Val	Ala	Glu	Ala	Thr	
	195					200						205				
Arg	Arg	Leu	Arg	Pro	Asn	Ala	Lys	Ile	Leu	Asn	Ile	Cys	Asp	Met	Pro	
	210				215					220						
Ile	Gly	Ile	Glu	Gly	Arg	Met	Ala	Gln	Ile	Val	Gly	Leu	Lys	Asp	Arg	
225					230				235						240	
Lys	Glu	Met	Arg	Val	Arg	Tyr	Tyr	Gly	Leu	Asn	His	Phe	Gly	Trp	Trp	
			245					250						255		
Thr	Ser	Ile	Glu	Asp	Gln	Asn	Gly	Asn	Asp	Leu	Met	Pro	Lys	Leu	Arg	
		260					265						270			
Glu	Tyr	Val	Ala	Lys	Asn	Gly	Tyr	Val	Pro	Pro	Ser	Glu	Asp	Val	His	
	275					280						285				
Thr	Glu	Ala	Ser	Trp	Asn	Asp	Thr	Phe	Ala	Lys	Ala	Lys	Asp	Val	Gln	
	290				295					300						
Ala	Leu	Asp	Pro	Asp	Thr	Met	Pro	Asn	Thr	Tyr	Leu	Lys	Tyr	Tyr	Leu	
305					310				315						320	
Phe	Pro	Asp	Tyr	Val	Val	Ala	His	Ser	Asn	Pro	Glu	Arg	Thr	Arg	Ala	
			325					330						335		
Asn	Glu	Val	Met	Asp	His	Arg	Glu	Lys	His	Val	Phe	Ser	Ser	Cys	Arg	
		340						345					350			
Ala	Ile	Ile	Glu	Ala	Gly	His	Ser	Ser	Ala	Gly	Glu	Leu	Glu	Ile	Asp	
	355						360					365				
Glu	His	Ala	Ser	Tyr	Ile	Val	Asp	Leu	Ala	Thr	Ala	Ile	Ala	Phe	Asn	
	370				375						380					
Thr	Gln	Glu	Arg	Met	Leu	Leu	Ile	Val	Pro	Asn	Asn	Gly	Ala	Ile	His	
385					390				395						400	
Asn	Phe	Asp	Ala	Asp	Ala	Met	Val	Glu	Ile	Pro	Cys	Leu	Val	Gly	His	
			405					410						415		
Asn	Gly	Pro	Glu	Pro	Leu	Thr	Val	Gly	Asp	Ile	Pro	His	Phe	Gln	Lys	
		420						425					430			
Gly	Leu	Met	Ser	Gln	Gln	Val	Ala	Val	Glu	Lys	Leu	Val	Val	Asp	Ala	
	435					440						445				
Trp	Glu	Gln	Arg	Ser	Tyr	Gln	Lys	Leu	Trp	Gln	Ala	Ile	Thr	Leu	Ser	
	450				455						460					
Lys	Thr	Val	Pro	Ser	Ala	Ser	Val	Ala	Lys	Ala	Ile	Leu	Asp	Asp	Leu	
465					470				475						480	
Ile	Glu	Ala	Asn	Lys	Asp	Tyr	Trp	Pro	Glu	Leu	His					
			485					490								

<210> 9484

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 9484

Cys	Tyr	Trp	Cys	Cys	Met	Pro	Asp	Ser	Arg	Lys	Ala	Arg	Arg	Glu	Ala
1				5					10					15	
Asp	Pro	Gly	Leu	Gln	Pro	Glu	Arg	Thr	Ser	Leu	Ala	Trp	Leu	Arg	Thr
		20						25					30		
Leu	Leu	Gly	Tyr	Gly	Ala	Leu	Ile	Ala	Leu	Ala	Ile	Lys	His	Asn	Trp
		35					40					45			
His	Arg	Thr	Gly	Ala	Pro	Phe	Trp	Ile	Ser	Ile	Val	Val	Leu	Ala	Leu
	50					55					60				
Val	Ala	Ile	Ile	Leu	Trp	Arg	Tyr	Thr	Arg	Ser	Arg	Asn	Leu	Met	Asp
65					70					75				80	
Val	Ser	Gln	Asn	Asp	Phe	Ala	Gln	Pro	Lys	Ala	Val	Arg	Asp	Lys	Phe
			85						90					95	
Leu	Ile	Ala	Leu	Ala	Val	Leu	Ser	Leu	Ser	Leu	Leu	Phe	Ala	Val	Thr
			100					105					110		
His	Ile	Gln	Gln	Ile	Leu	His	Leu								
		115					120								

<210> 9485

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9485

Trp	Gln	Trp	Thr	Arg	Gln	Ala	Ser	Arg	Met	His	Leu	Ile	Ser	Met	Lys
1				5					10					15	
Ala	Ile	Leu	Asp	Ala	Val	Ser	Gln	Phe	Pro	Gln	His	Arg	Glu	Glu	Leu
		20						25					30		
Leu	Phe	Leu	Gly	Arg	Val	Ile	Glu	Lys	Ser	His	Cys	Pro	Thr	Pro	Ala
		35					40				45				
Ala	Leu	Arg	Lys	Leu	Phe	Pro	Thr	Leu	Asp	Asn	Phe	Lys	Tyr	Leu	Asp
	50					55					60				
Lys	His	Tyr	Val	Ile	Asp	Ile	Ala	Asn	Asn	Asn	Leu	Arg	Val	Val	Ala
65					70					75				80	
Leu	Ile	Phe	Phe	Glu	Ser	Gln	Lys	Phe	Tyr	Val	Arg	His	Val	Phe	Thr
			85					90						95	
His	Lys	Glu	Tyr	Asp	Arg	Phe	Thr	Glu	Lys	His	Arg	Thr	Lys	Gly	Lys
			100					105					110		
Lys															

<210> 9486

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 9486

Arg	Arg	Ser	Thr	Ser	Trp	Lys	Thr	Ser	Pro	Lys	Trp	Arg	Ala	Thr	Ser
1				5					10					15	
Pro	Ile	Pro	Pro	Cys	Leu	Thr	Lys	Leu	Arg	Cys	Ser	Ser	Asn	Arg	Ser
		20						25					30		
Leu	Lys	Val	Ser	Val	Phe	Arg	Ser	Cys	Arg	Pro	Asp	Lys	Arg	Ser	Ala
		35					40					45			
Ile	Arg	Leu	Phe	Gln	Thr	Ala	Gly	Thr	His	Met	Thr	Thr	Ile	Ala	Leu
	50					55					60				
Ile	Asp	Asp	His	Leu	Ile	Val	Arg	Ser	Gly	Phe	Ala	Gln	Leu	Leu	Asn


```

65          70          75          80
Leu Glu Pro Asp Phe Gln Val Val Ala Glu Phe Gly Ser Gly Arg Glu
85          90          95
Ala Leu Ala Gly Leu Pro Gly Arg Gly Val Gln Val Cys Ile Cys Asp
100         105         110
Ile Ser Met Pro Asp Leu Ser Gly Leu Glu Leu Leu Ser Gln Leu Pro
115         120         125
Lys Gly Met Ala Thr Ile Met Leu Ser Val His Asp Ser Pro Ala Leu
130         135         140
Val Glu Gln Ala Leu Asn Ala Gly Ala Arg Gly Phe Leu Ser Lys Arg
145         150         155         160
Cys Ser Pro Asp Glu Leu Ile Ala Ala Val Arg Thr Val Ser Thr Gly
165         170         175
Gly Cys Tyr Leu Thr Pro Asp Ile Ala Ile Lys Leu Ala Ala Gly Arg
180         185         190
Gln Asp Pro Leu Thr Arg Arg Glu Arg Gln Val Ala Glu Lys Leu Ala
195         200         205
Gln Gly Met Ser Val Lys Glu Ile Ala Val Glu Leu Gly Leu Ser Pro
210         215         220
Lys Thr Val His Val His Arg Ala Asn Leu Met Glu Lys Leu Asn Val
225         230         235         240
Ser Asn Asp Val Glu Leu Ala Arg Arg Met Phe Asp Ser Trp Gln
245         250         255

```

<210> 9487

<211> 440

<212> PRT

<213> Enterobacter cloacae

<400> 9487

```

Gly Arg Ile Met Phe Lys Thr Pro Ala Ser Ala Ala Pro Leu Ser Asn
1          5          10          15
Lys Ala Glu Ile Asp Ser Arg Tyr Arg Tyr Trp Arg Arg His Ile Leu
20         25         30
Ile Thr Ile Trp Leu Gly Tyr Ala Leu Phe Tyr Phe Thr Arg Lys Ser
35         40         45
Phe Asn Ala Ala Ala Pro Glu Ile Leu Ala Ser Gly Val Met Thr Arg
50         55         60
Thr Asp Ile Gly Leu Leu Ala Thr Leu Phe Tyr Ile Thr Tyr Gly Leu
65         70         75         80
Ser Lys Phe Phe Ser Gly Ile Val Ser Asp Arg Ser Asn Ala Arg Tyr
85         90         95
Phe Met Gly Val Gly Leu Ile Ala Thr Gly Val Val Asn Ile Leu Phe
100        105        110
Gly Phe Ser Thr Ser Leu Trp Ala Phe Ala Leu Leu Trp Ala Leu Asn
115        120        125
Ala Phe Phe Gln Gly Trp Gly Ala Pro Val Cys Ala Arg Leu Leu Thr
130        135        140
Ala Trp Tyr Ser Arg Asn Glu Arg Gly Gly Trp Trp Ala Ile Trp Asn
145        150        155        160
Thr Ala His Asn Val Gly Gly Ala Leu Ile Pro Met Val Val Gly Ala
165        170        175
Ala Ala Leu His Tyr Gly Trp Arg Ala Gly Met Met Ile Ala Gly Gly
180        185        190
Leu Ala Ile Val Ala Gly Leu Phe Leu Cys Trp Arg Leu Arg Asp Arg
195        200        205
Pro Gln Thr Val Gly Leu Pro Pro Val Gly Asp Trp Arg His Asp Glu
210        215        220
Met Glu Ile Ala Gln Gln Gln Glu Gly Ala Gly Leu Ser Arg Gln Glu
225        230        235        240
Ile Leu Thr Lys Tyr Val Leu Lys Asn Pro Tyr Ile Trp Leu Leu Ser

```

245 250 255
 Leu Cys Tyr Val Leu Val Tyr Val Val Arg Ala Ala Ile Asn Asp Trp
 260 265 270
 Gly Asn Leu Tyr Met Ser Glu Thr Leu Gly Val Asp Leu Val Thr Ala
 275 280 285
 Asn Ser Ala Val Thr Met Phe Glu Leu Gly Gly Phe Ile Gly Ala Leu
 290 295 300
 Val Ala Gly Trp Gly Ser Asp Lys Leu Phe Asn Gly Asn Arg Gly Pro
 305 310 315 320
 Met Asn Leu Ile Phe Ala Ala Gly Ile Leu Leu Ser Val Gly Ser Leu
 325 330 335
 Trp Leu Met Pro Phe Ala Ser Tyr Val Met Gln Ala Ala Cys Phe Phe
 340 345 350
 Thr Ile Gly Phe Phe Val Phe Gly Pro Gln Met Leu Ile Gly Met Ala
 355 360 365
 Ala Ala Glu Cys Ser His Lys Glu Ala Ala Gly Ala Ala Thr Gly Phe
 370 375 380
 Val Gly Leu Phe Ala Tyr Leu Gly Ala Ser Leu Ser Gly Trp Pro Leu
 385 390 395 400
 Ala Arg Val Ile Asp Ile Trp His Trp Ser Gly Phe Phe Ala Val Ile
 405 410 415
 Ala Ile Ala Ala Gly Ile Ser Ala Leu Leu Leu Leu Pro Phe Leu His
 420 425 430
 Ala Gln Ala Pro Arg Glu Ala
 435 440

<210> 9488

<211> 508

<212> PRT

<213> Enterobacter cloacae

<400> 9488

Arg Ala Ser Pro Phe Ala Ala Glu Thr Arg Lys Thr Lys Lys Phe Ser
 1 5 10 15
 Arg Phe His Leu Asp Ala Val Ser Gly Ile Ser Pro Gly Trp Phe Leu
 20 25 30
 Gln Cys Cys Lys Asn Gln Leu Arg Ser Lys Pro Thr Met Leu Ala Phe
 35 40 45
 Leu Asn Gln Val Arg Lys Pro Thr Leu Asp Leu Pro Leu Asp Val Arg
 50 55 60
 Arg Lys Met Trp Phe Lys Pro Phe Met Gln Ser Tyr Leu Val Val Phe
 65 70 75 80
 Ile Gly Tyr Leu Thr Met Tyr Leu Ile Arg Lys Asn Phe Asn Ile Ala
 85 90 95
 Gln Asn Asp Met Ile Ser Thr Tyr Gly Leu Ser Met Thr Gln Leu Gly
 100 105 110
 Met Ile Gly Leu Gly Phe Ser Ile Thr Tyr Gly Val Gly Lys Thr Val
 115 120 125
 Val Ser Tyr Tyr Ala Asp Gly Lys Asn Thr Lys Gln Phe Leu Pro Phe
 130 135 140
 Met Leu Ile Leu Ser Ala Ile Cys Met Leu Gly Phe Ser Ala Ser Met
 145 150 155 160
 Gly Ala Gly Ser Val Ser Leu Phe Leu Met Ile Ala Phe Tyr Ala Leu
 165 170 175
 Ser Gly Phe Phe Gln Ser Thr Gly Gly Ser Cys Ser Tyr Ser Thr Ile
 180 185 190
 Thr Lys Trp Thr Pro Arg Arg Lys Arg Gly Ser Tyr Leu Gly Met Trp
 195 200 205
 Asn Ile Ser His Asn Leu Gly Gly Ala Gly Ala Ala Gly Val Ala Leu
 210 215 220
 Phe Gly Ala Asn Tyr Leu Phe Asp Gly His Val Ile Gly Met Phe Ile

```

225          230          235          240
Phe Pro Ser Ile Ile Ala Leu Ile Val Gly Phe Ile Gly Leu Arg Tyr
          245          250          255
Gly Ser Asp Ser Pro Glu Ser Tyr Gly Leu Gly Lys Ala Glu Glu Leu
          260          265          270
Phe Gly Glu Glu Ile Ser Glu Glu Asp Lys Asp Thr Glu Glu Asn Glu
          275          280          285
Met Thr Lys Trp Gln Ile Phe Val Glu Tyr Val Leu Lys Asn Lys Val
          290          295          300
Ile Trp Leu Leu Cys Phe Ser Asn Ile Phe Leu Tyr Val Val Arg Ile
305          310          315          320
Gly Ile Asp Gln Trp Ser Thr Val Tyr Ala Phe Gln Glu Leu Lys Leu
          325          330          335
Ser Lys Glu Val Ala Ile Gln Gly Phe Thr Leu Phe Glu Val Gly Ala
          340          345          350
Leu Val Gly Thr Leu Leu Trp Gly Trp Leu Ser Asp Leu Ala Asn Gly
          355          360          365
Arg Arg Ala Leu Val Ala Cys Ile Ala Leu Ala Leu Ile Ile Ala Thr
          370          375          380
Leu Gly Val Tyr Gln His Ala Ser Asn Gln Tyr Val Tyr Leu Ala Ser
385          390          395          400
Leu Phe Ala Leu Gly Phe Leu Val Phe Gly Pro Gln Leu Leu Ile Gly
          405          410          415
Val Ala Ala Val Gly Phe Val Pro Lys Lys Ala Ile Gly Ala Ala Asp
          420          425          430
Gly Ile Lys Gly Thr Phe Ala Tyr Leu Ile Gly Asp Ser Phe Ala Lys
          435          440          445
Leu Gly Leu Gly Met Ile Ala Asp Gly Thr Pro Ile Phe Gly Leu Thr
          450          455          460
Gly Trp Ala Gly Thr Phe Ala Ala Leu Asp Ala Ala Ala Ile Gly Cys
465          470          475          480
Ile Val Leu Met Ala Met Val Ala Val Leu Glu Glu Arg Lys Ile Arg
          485          490          495
Arg Glu Asn Arg Ala Gln Lys Leu Lys Val Ala
          500          505

```

<210> 9489

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 9489

```

Arg Val Met Met Met Ile Ala Leu Glu Glu Ala Val Met Glu Ile Ile
1          5          10          15
Val Asn Ala Gly Gln Ser Arg Ser Leu Cys Phe Glu Ala Leu His Ala
          20          25          30
Ala Arg Gln Gly Asn Leu Asp Glu Ala Lys Ser Leu Leu Arg Glu Ala
          35          40          45
Asp Gly Tyr Ala Arg Gln Ala His Lys Met Gln Thr Lys Leu Ile Glu
          50          55          60
Gln Asp Ala Gly Glu Ala Arg Gln Pro Met Thr Leu Ile Met Val His
65          70          75          80
Ala Gln Asp His Leu Met Asn Ser Leu Leu Ala Arg Glu Leu Ser Glu
          85          90          95
Glu Ile Ile His Leu Tyr Gln Arg
          100          105

```

<210> 9490

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 9490

```

1 Ile Lys Leu Asn Tyr Ile Glu Ile Thr Met Asn Thr Ile Lys Lys Leu
   5                               10                               15
Pro Leu Thr Met Ala Val Ile Ala Ala Leu Cys Pro Ile Ser Val Leu
   20                               25                               30
Ala Gln Glu Phe Thr Gln Glu Gln Ile Asp Ala Ile Val Ala Lys Ala
   35                               40                               45
Val Asp Lys Ala Leu Ala Glu Arg Gln Ala Lys Met Asp Ala Ala Val
   50                               55                               60
Ala Lys Lys Ala Asp Val Val Thr Glu Pro Gln Ser Ala Ala Gln Ser
   65                               70                               75                               80
Pro Asp Met Ala Ile Pro Phe Gly Val Lys Phe Thr Gly Tyr Ala Arg
   85                               90                               95
Tyr Gly Ala His Phe Gln Ala Ala Asp Gln Lys Tyr Val Ala Val Asp
  100                               105                               110
Gly Ser Tyr Asn Gly Ala Ser Ala Ile Gly Arg Leu Gly Asn Glu Gly
  115                               120                               125
Asn Gly Gly Glu Phe Gln Leu Ser Lys Ala Phe Lys Gly Glu Asn Gly
  130                               135                               140
Ala Ile Trp Asp Ile Asn Val Met Ile Asp His Trp Gly Asp Glu Val
  145                               150                               155                               160
Asn Leu Lys Lys Ala Tyr Ala Gly Val Thr Asn Ile Met Ala Ser Asn
  165                               170                               175
Pro Asn Ala Tyr Phe Trp Ala Gly Arg Asp Phe His Gln Arg Pro Gln
  180                               185                               190
Gln Gly Ile Asn Asp Tyr Phe Trp Met Asn His Asp Gly Gln Gly Ala
  195                               200                               205
Gly Val Lys Asn Phe Asp Ile Gly Gly Val Gln Phe Asp Val Ala Ala
  210                               215                               220
Val Ala Ala Val Glu Ser Cys Ser Pro Glu Val Met Glu Asp Glu Ala
  225                               230                               235                               240
Asn Pro Ser Arg Ile Thr Cys Thr Gly Gly Ser Gly Thr Gly Asp Lys
  245                               250                               255
Gly Asn Tyr Ala Ala Thr Ser Lys Ile His Gly Met Lys Leu Gly Pro
  260                               265                               270
Leu Asp Leu Glu Leu Tyr Ala Asn Ala Trp Gln Gly Gly Val Val Leu Ser
  275                               280                               285                               290
Glu Ser Asp Glu Arg Leu Asn Ala Trp Gln Gly Gly Val Val Leu Ser
  295                               300
His Thr Asn Asp Ser Gly Val Asn Lys Val Ile Ala Arg Tyr Ser Asp
  305                               310                               315                               320
Asn Ser Asp Asn Ser Val Phe Asn Lys Thr Glu Asp Leu Thr Thr Val
  325                               330                               335
Tyr Ala Ser Phe Glu Gly Leu Tyr Lys Phe Thr Gln Ala Thr Gln Val
  340                               345                               350
Glu Tyr Ile Leu Ala Phe His Asp Tyr Asp Asn Ser Arg Asp Lys Thr
  355                               360                               365
Asp Asn Arg Lys Asn Tyr Asn Ala Ile Val Arg Pro Met His Trp Trp
  370                               375                               380
Asn Asp Val His Ser Thr Trp Leu Glu Ala Gly Trp Gln His Val Asp
  385                               390                               395                               400
Tyr Asp Asn Gly Gly Asp Asn Lys Gly Trp Lys Leu Thr Leu Ser Gln
  405                               410                               415
Asn Met Ser Ile Ala Met Gly Pro Glu Phe Arg Pro Met Leu Arg Phe
  420                               425                               430
Tyr Val Thr Gly Gly Lys Val Asp Asn Glu Arg Thr Ala Arg Val Asn
  435                               440                               445
Asn Thr Lys Asp Glu Thr Leu Asp Asp Phe Asn Val Gly Ala Met Trp
  450                               455                               460
Glu Ala Trp Phe

```

465

<210> 9491

<211> 350

<212> PRT

<213> *Enterobacter cloacae*

<400> 9491

```

Ser Lys Ser Lys Thr Ala Thr Lys Val Ala Val Phe Asn Val Arg Ser
1      5      10      15
Leu Ser Pro Trp Glu Arg Ala Gly Val Arg Ala Ser Gly Arg Thr Gln
      20      25      30
Pro Cys Tyr Ala Val Asp Arg Ile Asn Asp Asn Ile Thr Gly Glu Asn
      35      40      45
Met Gly Ser Thr Arg Lys Gly Met Leu Asn Val Leu Ile Ala Ala Val
      50      55      60
Leu Trp Gly Ser Ser Gly Val Cys Ala Gln Tyr Ile Met Glu Lys Ser
65      70      75      80
His Ile Ser Ser Pro Tyr Leu Thr Met Val Arg Leu Leu Phe Thr Gly
      85      90      95
Val Ile Leu Leu Thr Leu Ser Phe Val His Gly Asp Lys Ile Phe Ser
      100      105      110
Val Ile Lys Asn Arg Lys Asp Ala Leu Ser Leu Leu Phe Phe Ser Leu
      115      120      125
Val Gly Ala Leu Thr Val Gln Leu Thr Phe Leu Leu Thr Ile Glu Lys
      130      135      140
Ser Asn Ala Ala Thr Ala Thr Val Leu Gln Phe Leu Ser Pro Thr Ile
145      150      155      160
Ile Val Ala Trp Phe Ala Leu Ala Arg Lys Thr Arg Pro Gly Ile Phe
      165      170      175
Val Leu Ser Ala Ile Phe Thr Ser Leu Val Gly Thr Phe Leu Leu Val
      180      185      190
Thr His Gly Asp Pro Thr Ser Leu Ser Ile Ser Pro Ala Ala Leu Phe
      195      200      205
Phe Gly Ile Ala Ser Ala Phe Ala Ala Phe Tyr Thr Thr Tyr Pro
210      215      220
Ser Thr Leu Ile Ala Arg Tyr Gly Thr Leu Pro Ile Val Gly Trp Ser
225      230      235      240
Met Leu Ile Ala Gly Leu Met Leu Thr Pro Phe Tyr Ala Gly Arg Gly
      245      250      255
Thr Thr Phe Val Ile Asp Gly Gly Leu Leu Leu Ala Phe Phe Tyr Leu
      260      265      270
Val Val Ile Gly Thr Ala Leu Thr Phe Ser Leu Tyr Leu Lys Gly Ala
      275      280      285
Gln Met Ile Gly Gly Pro Lys Ala Ser Ile Leu Ser Cys Ala Glu Pro
290      295      300
Leu Ser Ser Ala Leu Leu Ser Val Val Leu Leu Gly Val Ala Phe Thr
305      310      315      320
Leu Pro Asp Trp Leu Gly Thr Leu Leu Ile Val Ser Ser Val Val Leu
      325      330      335
Ile Ser Met Asp Ser Arg Arg Arg Val Lys Ala Ser Ala
      340      345      350

```

<210> 9492

<211> 304

<212> PRT

<213> *Enterobacter cloacae*

<400> 9492

```

Gln Asn Ile Met Lys Ala Asp Leu Arg Thr Leu Asp Leu Asn Leu Leu
1      5      10      15

```

Lys Thr Leu Asp Ala Leu Leu Asp Glu Arg Ser Val Thr Arg Ala Ala
 20 25 30
 Ala Arg Leu Ala Leu Thr Gln Pro Ala Val Ser Gly Met Leu Asn Arg
 35 40 45
 Leu Arg Asp Tyr Phe Asp Asp Pro Leu Phe Ile Arg Ala Pro His Gly
 50 55 60
 Met Val Pro Thr Thr Arg Ala Glu Ala Leu Ala Pro Val Lys Arg
 65 70 75 80
 Ile Leu Ala Asp Ile Asp Val Leu Leu Gln Pro Val Ala Phe Asp Pro
 85 90 95
 Asn Thr Ala Arg Leu Thr Phe Thr Leu Ala Ala Thr Asp Tyr Ala Leu
 100 105 110
 Arg Ala Val Val Val Pro Phe Ile Ala Ala Leu Lys Thr Gln Ala Pro
 115 120 125
 Gly Ile Arg Val Arg Val Val Pro Val Thr Pro Gly Ser Leu Val Ser
 130 135 140
 Gln Leu Glu Gln Gly Ala Ile Asp Val Ala Leu Ile Thr Pro His Thr
 145 150 155 160
 Thr Pro Asp Glu Leu His Ser Arg Ala Leu Tyr Asp Glu Arg Tyr Val
 165 170 175
 Cys Met Met Arg Ala Asp His Pro Asn Ala Gly Glu Pro Met Thr Leu
 180 185 190
 Asp Arg Phe Cys Ala Leu Glu His Val Leu Val Ser Tyr Glu Gly Asp
 195 200 205
 Gly Phe Arg Gly Val Thr Asp Ser Ala Leu Glu Lys Ile Gly Arg Thr
 210 215 220
 Arg His Val Gly Leu Ser Val Ser His Phe Leu Val Leu Pro Asp Val
 225 230 235 240
 Leu Ala Leu Ser Asp Met Ile Ala Val Val Pro Ser Arg Ile Ala Glu
 245 250 255
 Asn Gln Thr Gly Met Phe Ile Cys Glu Thr Pro Val Pro Val Pro Gly
 260 265 270
 Phe Thr Lys Ser Met Ala Trp His Gly Arg Thr His Arg Asn Pro Ala
 275 280 285
 Gln Ala Trp Leu Arg Gly Leu Leu Leu Gln Thr Ser Gln Arg Ala
 290 295 300

<210> 9493

<211> 447

<212> PRT

<213> Enterobacter cloacae

<400> 9493

Asp Met Gly Ser Gln Val Trp Val Val Ala Thr Leu Leu Val Ser Ile
 1 5 10 15
 Val Leu Ile Val Leu Thr Ile Val Lys Leu Lys Phe His Pro Phe Leu
 20 25 30
 Ala Leu Leu Leu Ala Ser Phe Phe Val Gly Ala Met Met Gly Met Ser
 35 40 45
 Pro Leu Asp Met Val Asn Ala Ile Glu Ser Gly Ile Gly Gly Thr Leu
 50 55 60
 Gly Phe Leu Ala Ala Val Ile Gly Leu Gly Thr Ile Leu Gly Lys Met
 65 70 75 80
 Met Glu Val Ser Gly Ala Ala Glu Arg Ile Gly Ile Thr Leu Gln Arg
 85 90 95
 Cys Arg Trp Leu Ser Ala Asp Val Ile Met Val Leu Val Gly Leu Ile
 100 105 110
 Cys Gly Ile Thr Leu Phe Val Glu Val Gly Val Val Leu Leu Ile Pro
 115 120 125
 Leu Ala Phe Ser Ile Ala Lys Lys Thr Asn Thr Ser Leu Leu Lys Leu
 130 135 140

Ala Ile Pro Leu Cys Thr Ala Leu Met Ala Val His Cys Val Val Pro
 145 150 155 160
 Pro His Pro Ala Ala Leu Phe Val Thr Asn Lys Leu Gly Ala Asp Val
 165 170 175
 Gly Thr Val Ile Val Tyr Gly Leu Met Val Gly Leu Met Ala Ser Leu
 180 185 190
 Val Gly Gly Pro Leu Phe Leu Lys Leu Leu Gly Asn His Leu Pro Tyr
 195 200 205
 Lys Pro Val Pro Ala Glu Phe Ser Asp Leu Lys Val Arg Glu Glu His
 210 215 220
 Thr Leu Pro Ser Leu Gly Ala Thr Leu Phe Thr Val Leu Leu Pro Ile
 225 230 235 240
 Ala Leu Met Leu Val Lys Thr Ile Ala Glu Leu Asn Met Ala Lys Glu
 245 250 255
 Gly Ser Leu Tyr Thr Leu Leu Glu Phe Ile Gly Asn Pro Ile Thr Ala
 260 265 270
 Met Phe Ile Ala Val Phe Val Ala Tyr Tyr Leu Leu Gly Ile Arg Gln
 275 280 285
 His Met Gly Met Gly Ala Met Leu Thr His Thr Glu His Gly Phe Gly
 290 295 300
 Ser Ile Ala Asn Ile Leu Leu Ile Ile Gly Ala Gly Gly Ala Phe Asn
 305 310 315 320
 Ala Ile Leu Lys Thr Ser Gly Leu Ala Glu Thr Leu Ala His Ile Leu
 325 330 335
 Ser Asn Leu His Met His Pro Ile Leu Leu Ala Trp Leu Val Ala Leu
 340 345 350
 Val Leu His Ala Ala Val Gly Ser Ala Thr Val Ala Met Met Gly Ala
 355 360 365
 Thr Ala Ile Val Ala Pro Met Leu Pro Leu Tyr Pro Asn Val Ser Pro
 370 375 380
 Glu Ile Ile Thr Ile Ala Ile Gly Ser Gly Ala Ile Gly Cys Thr Ile
 385 390 395 400
 Val Thr Asp Ser Leu Phe Trp Leu Val Lys Gln Tyr Cys Gly Ala Thr
 405 410 415
 Leu Asn Glu Thr Phe Lys Tyr Tyr Thr Thr Ala Thr Phe Ile Ala Ser
 420 425 430
 Val Leu Ala Leu Gly Gly Thr Phe Leu Leu Ser Phe Ile Ile
 435 440 445

<210> 9494

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 9494

Cys Ala Gln Arg Gly Leu Leu Val Ile Tyr Lys Ser Ile Ala Asp Arg
 1 5 10 15
 Leu Arg Leu Arg Leu Asn Ser Ser Asp Tyr Asn Ile Gly Ser Pro Leu
 20 25 30
 Pro Gly Glu Lys Ala Leu Ala Lys Glu Phe Gly Val Ala Arg Met Thr
 35 40 45
 Val Arg Lys Ala Leu Asp Leu Leu Val Ser Trp Gly Leu Val Glu Arg
 50 55 60
 Arg His Gly Ser Gly Thr Phe Val Ala Arg Lys Asp Val His His Glu
 65 70 75 80
 Thr Thr Asn Leu Thr Gly Leu Val Glu Val Leu Arg Gln Gln Gly Lys
 85 90 95
 Glu Val Gln Ser Lys Val Leu Gln Phe Glu Val Met Pro Ala Pro Pro
 100 105 110
 Ala Ile Ala Ser Gln Leu Arg Ile Gln Val Asp Glu Arg Ile Tyr Phe
 115 120 125

```

Ser Arg Arg Val Arg Tyr Val Asp Gly Lys Pro Leu Met Leu Glu Asp
  130          135          140
Ser Phe Met Pro Val Lys Leu Phe Arg Asn Leu Ser Leu Ala His Leu
145          150          155          160
Glu Gly Ser Lys Phe Asp Tyr Ile Glu Lys Glu Cys Gly Ile Thr Ile
          165          170          175
Ser Gly Asn Tyr Glu Ser Leu Thr Pro Val Leu Ala Asp Lys Gln Leu
          180          185          190
Ala Gly Tyr Met Asn Val Pro Glu Gln Thr Pro Leu Leu Arg Ile Thr
          195          200          205
Ser Leu Ser Tyr Ser Asp Ser Gly Glu Phe Leu Asn Tyr Ser Val Met
210          215          220
Phe Arg Asn Thr Ser Asp Tyr Gln Val Asp Tyr His Leu Arg Arg Ile
225          230          235          240
His Pro Glu Asp Leu Leu Ala His Pro Pro Glu
          245          250

```

<210> 9495

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9495

```

Ile Thr Glu Ala Asp Asp Tyr Arg Gln Leu Leu Gly Glu Asp Lys Phe
1          5          10          15
Leu Asp Arg Pro Gly Asn Ala Val Phe Gln Val Arg Phe Gly His Glu
          20          25          30
Val Arg His Phe Phe Tyr Arg Arg Asp Gly Val Ile His Arg His Ala
          35          40          45
His Ala Cys Ile Phe Asp His Arg Asn Ile Val Phe Leu Val Ala Gln
50          55          60
Arg His Asp Leu Leu Arg Leu Asp Ala Gln Arg Ile Gly Lys Arg Phe
65          70          75          80
Asp Ala Arg Ala Phe Ile Asp Ala Phe Ile Glu Asp Phe Glu Glu Val
          85          90          95
Arg Arg Thr Phe Gln Tyr Gly Val Phe Leu Phe Tyr Leu Ser Arg Asn
100          105          110
Ala

```

<210> 9496

<211> 456

<212> PRT

<213> Enterobacter cloacae

<400> 9496

```

His Phe Pro Asp Asn Phe Trp Trp Gly Ser Ala Ser Ser Ala Leu Gln
1          5          10          15
Thr Glu Gly Thr Arg Glu Gly Glu Thr Thr Trp Asp Tyr Trp Phe Ala
20          25          30
Arg Glu Pro Asn Arg Phe His Asn Gly Val Gly Pro Gln His Thr Ser
35          40          45
Thr Phe Tyr Gln His Trp Lys Thr Asp Ile Gln Leu Leu Lys Gln Leu
50          55          60
Asn His Asn Ser Phe Arg Thr Ser Ile Ser Trp Ala Arg Leu Ile Pro
65          70          75          80
Asp Gly Ile Gly Glu Val Asn Pro Asp Ala Val Asp Phe Tyr Asn Gln
          85          90          95
Val Ile Asp Glu Leu Asn Glu Gln Gly Ile Thr Pro Phe Ile Thr Leu
100          105          110
Phe His Phe Asp Met Pro Met Ala Met Gln Glu Ile Gly Gly Trp Glu

```



```

      115                      120                      125
Asn Arg Asp Val Val Asp Ala Tyr Ala Arg Tyr Ala Gln Ile Cys Phe
130                      135                      140
Glu Leu Phe Gly Asp Arg Val Leu His Trp Phe Thr Phe Asn Glu Pro
145                      150                      155                      160
Ile Val Pro Val Glu Gly Gly Tyr Leu Tyr Asp Phe His Tyr Pro Asn
165                      170                      175
Val Val Asp Phe Arg Arg Ala Ala Thr Val Ala Tyr His Thr Val Leu
180                      185                      190
Ala His Ala Lys Ala Val Gln Ala Tyr Arg Ala Gly His Tyr Ala Gly
195                      200                      205
Glu Ile Gly Ile Val Leu Asn Leu Thr Pro Ser Tyr Pro Arg Ser Gln
210                      215                      220
Asn Pro Ala Asp Val Lys Ala Ala His Val Ala Asp Leu Met Phe Asn
225                      230                      235                      240
Arg Ser Phe Leu Asp Pro Val Leu Arg Gly Glu Tyr Pro Ala Asp Leu
245                      250                      255
Val Ala Leu Leu Lys Ser Tyr Asp Gln Leu Pro Ala Cys Lys Pro Glu
260                      265                      270
Asp Gly Phe Leu Ile Ala Glu Gly Lys Ile Asp Leu Leu Gly Ile Asn
275                      280                      285
Tyr Tyr Gln Pro Arg Arg Val Lys Cys Arg Asp Ser Ala Val Asn Pro
290                      295                      300
Gln Ala Pro Phe Met Pro Glu Trp Phe Phe Asp Asn Tyr Glu Met Pro
305                      310                      315                      320
Gly Arg Lys Met Asn Pro Tyr Arg Gly Trp Glu Ile Tyr Glu Pro Gly
325                      330                      335
Ile Tyr Asp Ile Leu Val Asn Leu Arg Asp His Tyr Gly Asn Pro Arg
340                      345                      350
Cys Phe Ile Ser Glu Asn Gly Met Gly Val Glu Asn Glu Gln Arg Phe
355                      360                      365
Ile Glu Asn Gly Gln Ile Asn Asp Gln Tyr Arg Ile Asp Phe Ile Ser
370                      375                      380
Glu His Leu Ser Trp Leu His Lys Gly Ile Ser Glu Gly Cys Asn Cys
385                      390                      395                      400
Leu Gly Tyr His Met Trp Thr Phe Ile Asp Asn Trp Ser Trp Cys Asn
405                      410                      415
Ala Tyr Lys Asn Arg Tyr Gly Phe Ile Gln Leu Asp Val Glu Thr Gln
420                      425                      430
Gln Arg Thr Ile Lys Lys Ser Gly Glu Trp Phe Ala Ala Thr Ala Leu
435                      440                      445
Asn Asn Ser Phe Asp Lys Glu
450                      455

```

<210> 9497

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 9497

```

His Phe Thr Asn Arg Tyr Ala Met Thr Ile Thr Val Phe Cys Ile Leu
1      5      10      15
Leu Phe Ala Ala Leu Leu His Ala Ser Trp Asn Ala Ile Val Lys Ala
20      25      30
Gly Thr Asp Lys Leu Tyr Ser Ala Ile Gly Val Ser Gly Ser Ala Ala
35      40      45
Leu Ile Ala Leu Ile Leu Leu Pro Phe Ser Pro Gln Pro Thr Ala Ala
50      55      60
Ser Trp Pro Tyr Leu Phe Val Ser Cys Ala Leu Gln Val Val Tyr Thr
65      70      75      80
Val Leu Val Ala Lys Thr Tyr Gln Val Ser Asp Met Ser Gln Thr Tyr

```

```
<210> 9498
<211> 112
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9499
<211> 316
<212> PRT
<213> Enterobacter cloacae
```

<400> 9499															
Tyr	Asn	Ser	Ser	Met	Thr	Asp	Thr	Leu	Lys	Asp	Ile	Pro	Val	Phe	Val
1			5						10					15	
Ala	Ser	Val	Glu	Ala	Gly	Ser	Phe	Ala	Gln	Ala	Ala	Val	Arg	Leu	His
			20					25					30		
Leu	Ser	Arg	Ser	Ala	Val	Gly	Lys	Ser	Ile	Ala	Arg	Leu	Glu	Glu	Arg
			35				40					45			
Leu	Gly	Val	Arg	Leu	Phe	His	Arg	Thr	Thr	Arg	Ser	Gln	Arg	Leu	Thr
	50					55					60				

```

Asp Asn Gly Ala Leu Phe Tyr Glu Arg Cys Leu Arg Ala Leu Glu Glu
65      70      75      80
Ile Arg Gly Ala Glu Ser Gln Leu Glu Thr Gly Lys His Gln Val Ser
      85      90      95
Gly Arg Leu Arg Val Ala Met Pro Val Leu Phe Gly Arg Gln Cys Ile
      100      105      110
Ala Pro Leu Leu Ile Glu Leu Ala Gln Glu His Pro Gly Leu Glu Leu
      115      120      125
Glu Met Ser Phe Ser Asp Arg Ile Val Asp Leu Val Glu Glu Gly Phe
      130      135      140
Asp Met Ala Val Arg Asn Gly Thr Leu Ala Asp Ser Ala Val Leu Val
      145      150      155      160
Ala Arg Arg Leu Gly Val His Arg Met Val Leu Cys Ala Ala Pro Asp
      165      170      175
Tyr Leu Ile Lys Asn Gly Gln Pro Gln Ser Val Asp Asp Leu Arg Gln
      180      185      190
Tyr Thr Ala Ile Asn Tyr Thr Arg Ala Gly Arg Val Leu Pro Trp Gln
      195      200      205
Leu Met Asp Tyr Asp Gly Thr Ser Arg Thr Phe Ile Pro Arg Ser Ser
      210      215      220
Leu Asn Met Asp Asp Leu Gln Ala Ile Cys Asp Ala Ala Leu Ala Gly
      225      230      235      240
His Gly Ile Ala Trp Leu Pro Cys Trp Met Val Ile Lys Glu Ile His
      245      250      255
Gln Gly Asn Leu Val Pro Leu Phe Lys Gln Ala Pro Asp Val Arg Phe
      260      265      270
Asp Val His Ala Val Trp Gln Gln Thr Pro His Leu Pro Leu Arg Val
      275      280      285
Arg Ile Ala Ile Asp Met Leu Val Lys Arg Leu Pro Ala Val Met Ser
      290      295      300
Leu Glu Phe Pro Ala Ser Ile Lys Lys Pro Arg
      305      310      315

```

<210> 9500

<211> 482

<212> PRT

<213> Enterobacter cloacae

<400> 9500

```

Ser Ala Ala Ser Tyr Val Val Val Lys Arg Arg Leu Asn Ile Asp Ile
1      5      10      15
Arg Arg Leu Gln Gly Val Leu Phe Asp Glu Gly Ala Thr Trp Phe Asn
      20      25      30
Arg Ile Ala His Gln Gly Arg Glu Leu Ile Arg Cys Asp Cys Val
      35      40      45
Phe Asn Gly Asp Ala Gln His Ala Thr Ala Phe Arg Ile His Ser Gly
      50      55      60
Phe Pro Gln Leu Ile Arg Val His Phe Ala Gln Ala Phe Ile Thr Leu
      65      70      75      80
Asn Arg Glu Ala Ala Thr Gly Leu Phe His Gln Pro Leu Gln Arg Leu
      85      90      95
Phe Glu Ala Gly Tyr Arg Leu Thr Thr Leu Ala Thr Phe Asp Glu Arg
      100      105      110
Val Val Phe Asp Gln Thr Thr Gln Leu Leu Ala Glu Gly Ala Asp Thr
      115      120      125
Ala Val Phe Arg Thr Gly Asn Lys Leu Val Leu Gln Arg Val Val Gly
      130      135      140
Ile Asp Ala Val Gly Thr His Ala Asn Asn Arg Leu Glu Leu Leu Leu
      145      150      155      160
Ser Val Leu Leu Asn Val Glu Leu Pro Leu Ala Ala Val Leu Leu Phe
      165      170      175

```

Leu Val Gln Leu Ala His Gln Gly Val His Pro Ala Gly Asp Gly Leu
 180 185 190
 Leu Val Ala Gln Ile Gly Phe Gly Gln Gly Arg Leu Ile Asn Gln Leu
 195 200 205
 Phe Gln Gln Arg Phe Arg Ile Ala Thr Leu His Thr Ala Asn His Phe
 210 215 220
 Leu Arg Gly Val Glu Leu Gly Asn Gln Thr Leu Gln Arg Leu Thr Gly
 225 230 235 240
 Gln Arg Trp Arg Ala Gly Val Cys Val Gln Gly Arg Thr Ile Lys Gly
 245 250 255
 Asp Arg Asp Leu Val Leu Ile His Arg Val Val Ile Phe Asn Val Leu
 260 265 270
 Phe Leu Leu Ala Phe Phe His Leu Val Gln Arg Trp Leu Arg Asn Val
 275 280 285
 Asp Val Ala Ala Leu Asn Asp Phe Arg His Leu Thr Ile Glu Glu Gly
 290 295 300
 Gln Gln Gln Arg Thr Asp Val Arg Ala Val Asp Val Arg Ile Gly His
 305 310 315 320
 Asp Asp Asp Ala Val Ile Thr Gln Phe Val Arg Val Val Leu Val Ala
 325 330 335
 Thr Asn Ala Ala Ala Glu Arg Gly Asp Glu Arg Arg His Phe Leu Arg
 340 345 350
 Arg Glu His Leu Val Glu Ala Arg Phe Leu Asn Val Glu Asp Phe Thr
 355 360 365
 Leu Gln Arg Gln Asn Arg Leu Val Leu Ala Val Thr Ala Leu Leu Cys
 370 375 380
 Arg Thr Ala Arg Gly Val Pro Phe His Lys Val Gln Phe Arg Gln Arg
 385 390 395 400
 Arg Val Ala Phe Leu Thr Val Ser Gln Phe Ala Arg Gln Ala Cys Gln
 405 410 415
 Val Gln Arg Ala Phe Thr Thr Gly His Phe Thr Arg Phe Thr Arg Arg
 420 425 430
 Phe Thr Gly Thr Arg Arg Ile Asp Asn Phe Thr His His Asp Phe Arg
 435 440 445
 Val Gly Arg Val Phe Gln Gln Val Phe Ala Gln Gln Phe Val His Leu
 450 455 460
 Leu Phe Asn Arg Arg Phe His Leu Arg Arg Asp Gln Leu Val Phe Gly
 465 470 475 480
 Leu

<210> 9501

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 9501

Gly Glu Leu Arg Ile Arg His Leu His Gly Asp His Gly Asn Gln Ala
 1 5 10 15
 Phe Thr Gly Ile Val Thr Gly Gly Ala Asp Phe Arg Phe Phe Thr Val
 20 25 30
 Ala Phe Phe Val His Val Ser Val Gln Gly Thr Gly His Arg Arg Ala
 35 40 45
 Glu Ala Arg Lys Val Arg Thr Ala Val Ala Leu Trp Asn Val Val Gly
 50 55 60
 Glu Ala Val Asn Val Phe Leu Glu Thr Val Val Pro Leu Gln Gly His
 65 70 75 80
 Phe His Ala Asp Thr Val Phe Phe Ser Arg Glu Val Glu Asp Ile Arg
 85 90 95
 Val Asn Trp Arg Phe Val Leu Val Gln Ile Leu Asn Glu Arg Leu Asp
 100 105 110

Thr Thr Phe Val Met Glu Val Val Phe Phe Val Val Ala Phe Val Ala
 115 120 125
 Gln Thr Asn Arg His Ala Gly Val Gln Glu Arg Gln Phe Thr Gln Ala
 130 135 140
 Phe Arg Gln Asn Val Val Leu Glu Phe Gly Asp Val Gly Glu Gly Phe
 145 150 155 160
 Lys Ala Arg Pro Glu Thr His His Gly Thr Gly Phe Leu Gly Ile Thr
 165 170 175
 Arg Asp Gly Gln Arg Arg Phe Arg His Ala Val Leu Val Asp Leu Thr
 180 185 190
 Val Asn Phe Ala Phe Ala Leu Asp Asn Gln Leu Gln Leu Leu Arg Gln
 195 200 205
 Gly Val Tyr Tyr Gly Tyr Ala Tyr Ala Val Gln Thr Ala Gly Asn Phe
 210 215 220
 Ile Gly Val Ile Ile Glu Leu Thr Ala Cys Val Gln Asn Gly His Asp
 225 230 235 240
 His Phe Arg Ser Arg Tyr Ala Leu Phe Arg Val Asn Thr Gly Trp Asp
 245 250 255
 Ala Thr Ala Val Ile Gly Asn Gly His Gly Val Val Arg Met Asp Arg
 260 265 270
 Asp His Asp Val Phe Thr Val Thr Arg Glu Arg Phe Val Asp Ser Val
 275 280 285
 Ile Tyr His Leu Glu Tyr His Val Val Gln Thr Gly Ala Val Ile Arg
 290 295 300
 Val Ala Asp Ile His Thr Arg Ala Leu Thr His Arg Ile Gln Pro Phe
 305 310 315 320
 Gln Asp Phe Asp Thr Gly Gly Val Ile Arg Ile Arg His Gln Arg Phe
 325 330 335
 Ser Leu Ile Ser Thr Trp Val Asn Pro Leu Phe Tyr Pro Phe Pro Arg
 340 345 350

<210> 9502

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 9502

Ala Ser Phe Thr Arg Arg Ser Ser Gly Cys Arg Cys Val Gly Cys Val
 1 5 10 15
 Pro Ser Pro Gln Ser Arg Thr Tyr Val Arg Ser Trp Gly Phe Ala His
 20 25 30
 Leu Pro Pro Ser Cys Asn Pro Asn Tyr Leu Ala Tyr Pro Gly Gly Val
 35 40 45
 Leu Asn Glu Lys Pro Arg Pro Val Cys Ala Gly Gly Val Leu Asp Ser
 50 55 60
 Cys Val Asp Pro Val Pro Thr Ala His Cys Arg Arg Pro Pro Pro His
 65 70 75 80
 Ala Arg Arg Pro Leu Arg Gln Val Ala Gln Phe Leu Val Gly Ser Lys
 85 90 95

<210> 9503

<211> 410

<212> PRT

<213> Enterobacter cloacae

<400> 9503

Ser Leu Ile Leu His Leu Ser Leu Leu Ala Lys Val Phe Ser Asp Met

```

<210> 9504
<211> 463
<212> PRT
<213> Enterobacter cloacae

<400> 9504
Asp Leu Gln Ile Leu Tyr Asp Gly Asp Val Tyr Arg Leu Gly Ala Cys
1          5          10          15
Thr Trp Arg His Ile Pro Ala Phe Phe His Tyr Leu Ser Ala Lys Arg

```

```
<210> 9505
<211> 661
<212> PRT
<213> Enterobacter cloacae
```

<400> 9505

His	Leu	Thr	Arg	Arg	Lys	Lys	Ala	Met	Ser	Gln	Ile	His	Lys	His	Asp
1				5					10					15	
Ile	Pro	Ala	Asn	Ile	Ala	Asp	Arg	Cys	Leu	Ile	Ser	Pro	Glu	Gln	Tyr
			20					25					30		
Gln	Glu	Lys	Tyr	Gln	Gln	Ser	Val	Ser	Ser	Pro	Asp	Ala	Phe	Trp	Gly
		35					40					45			
Glu	Gln	Gly	His	Ile	Leu	Asp	Trp	Ile	Lys	Pro	Tyr	Gln	Lys	Val	Lys
	50					55					60				
Asn	Thr	Ser	Phe	Ala	Pro	Gly	Asn	Val	Ser	Ile	Lys	Trp	Tyr	Glu	Asp
65				70						75				80	
Gly	Thr	Leu	Asn	Leu	Ala	Ala	Asn	Cys	Leu	Asp	Arg	His	Leu	Ala	Glu
			85					90					95		
Arg	Gly	Asn	Glu	Thr	Ala	Ile	Ile	Trp	Glu	Gly	Asp	Asp	Ala	Ser	Gln
			100					105					110		
Ser	Lys	His	Ile	Ser	Tyr	Lys	Glu	Leu	His	Arg	Asp	Val	Cys	Arg	Phe
		115					120					125			
Ala	Asn	Val	Leu	Leu	Ala	Gln	Gly	Ile	Lys	Lys	Gly	Asp	Val	Val	Ala
	130					135						140			
Ile	Tyr	Met	Pro	Met	Val	Pro	Glu	Ala	Ala	Val	Ala	Met	Leu	Ala	Cys
145					150					155					160
Ala	Arg	Ile	Gly	Ala	Ile	His	Ser	Val	Ile	Phe	Gly	Gly	Phe	Ser	Pro
			165					170					175		
Glu	Ala	Val	Ala	Gly	Arg	Ile	Val	Asp	Ser	Asn	Ser	Lys	Leu	Val	Ile
			180					185					190		
Thr	Ala	Asp	Glu	Gly	Val	Arg	Ala	Gly	Arg	Gly	Ile	Pro	Leu	Lys	Lys
		195					200					205			
Asn	Val	Asp	Glu	Ala	Leu	Lys	Asn	Pro	Asn	Val	Lys	Ser	Ile	Ser	Asn
	210					215					220				
Val	Ile	Val	Phe	Lys	Arg	Thr	Gly	Gly	Lys	Ile	Asp	Trp	His	Glu	Gly
225					230					235				240	
Arg	Asp	Leu	Trp	Trp	Ser	Asp	Leu	Ile	Glu	Lys	Ala	Ser	Asp	Gln	His
			245						250					255	
Gln	Pro	Glu	Glu	Met	Asn	Ala	Glu	Asp	Pro	Leu	Phe	Ile	Leu	Tyr	Thr
			260					265					270		
Ser	Gly	Ser	Thr	Gly	Lys	Pro	Lys	Gly	Val	Leu	His	Thr	Thr	Gly	Gly
		275					280					285			
Tyr	Leu	Val	Tyr	Ala	Ala	Thr	Thr	Phe	Lys	Tyr	Val	Phe	Asp	Tyr	His
	290					295					300				
Pro	Gly	Asp	Ile	Tyr	Trp	Cys	Thr	Ala	Asp	Val	Gly	Trp	Val	Thr	Gly
305					310					315				320	
His	Ser	Tyr	Leu	Leu	Tyr	Gly	Pro	Leu	Ala	Cys	Gly	Ala	Thr	Thr	Leu
			325						330					335	
Met	Phe	Glu	Gly	Val	Pro	Asn	Trp	Pro	Thr	Pro	Ala	Arg	Met	Cys	Gln
			340					345					350		
Val	Val	Asp	Lys	His	Gln	Val	Asn	Ile	Leu	Tyr	Thr	Ala	Pro	Thr	Ala
		355					360					365			
Ile	Arg	Ala	Leu	Met	Ala	Glu	Gly	Asp	Lys	Ala	Ile	Glu	Gly	Thr	Asp
	370				375							380			
Arg	Ser	Ser	Leu	Arg	Ile	Leu	Gly	Ser	Val	Gly	Glu	Pro	Ile	Asn	Pro
385					390					395				400	
Glu	Ala	Trp	Glu	Trp	Tyr	Trp	Lys	Lys	Ile	Gly	Asn	Glu	Lys	Cys	Pro
			405						410					415	
Val	Met	Asp	Thr	Trp	Trp	Gln	Thr	Glu	Thr	Gly	Gly	Phe	Met	Ile	Thr
			420					425					430		
Pro	Met	Pro	Gly	Ala	Thr	Gln	Leu	Lys	Ala	Gly	Ser	Ala	Thr	Arg	Pro
		435					440					445			
Phe	Phe	Gly	Val	Gln	Pro	Ala	Leu	Val	Asp	Asn	Glu	Gly	Asn	Pro	Gln
	450					455					460				
Glu	Gly	Ala	Thr	Glu	Gly	Asn	Leu	Val	Ile	Val	Asp	Ser	Trp	Pro	Gly
465					470					475				480	

Gln Ala Arg Thr Leu Phe Gly Asp His Glu Arg Phe Glu Gln Thr Tyr
 485 490 495
 Phe Ser Thr Phe Lys Asn Met Tyr Phe Ser Gly Asp Gly Ala Arg Arg
 500 505 510
 Asp Glu Asp Gly Tyr Tyr Trp Ile Thr Gly Arg Val Asp Asp Val Leu
 515 520 525
 Asn Val Ser Gly His Arg Leu Gly Thr Ala Glu Ile Glu Ser Ala Leu
 530 535 540
 Val Ser His Pro Lys Ile Ala Glu Ala Ala Val Val Gly Ile Pro His
 545 550 555 560
 Asn Ile Lys Gly Gln Ala Ile Tyr Ala Tyr Val Thr Leu Asn His Gly
 565 570 575
 Glu Glu Pro Ser Pro Glu Leu Tyr Thr Glu Val Arg Asn Trp Val Arg
 580 585 590
 Lys Glu Ile Gly Pro Leu Ala Thr Pro Asp Val Leu His Trp Thr Asp
 595 600 605
 Ser Leu Pro Lys Thr Arg Ser Gly Lys Ile Met Arg Arg Ile Leu Arg
 610 615 620
 Lys Ile Ala Ala Gly Asp Thr Ser Asn Leu Gly Asp Thr Ser Thr Leu
 625 630 635 640
 Ala Asp Pro Gly Val Val Asp Lys Leu Leu Glu Glu Lys Gln Ala Ile
 645 650 655
 Ala Met Pro Ser
 660

<210> 9506

<211> 560

<212> PRT

<213> Enterobacter cloacae

<400> 9506

Gln Arg Ser Ser Ala Arg Gly Lys Ser Ile Met Lys Arg Ile Leu Thr
 1 5 10 15
 Ala Leu Ala Ala Thr Leu Pro Phe Ala Ala His Ala Ala Asp Ala Ile
 20 25 30
 Thr Gly Glu Val Gln Arg Gln Pro Thr Asn Trp Gln Ala Ile Ile Met
 35 40 45
 Phe Leu Ile Phe Val Val Leu Thr Leu Tyr Ile Thr Tyr Trp Ala Ser
 50 55 60
 Lys Gln Val Arg Ser Arg Asn Asp Tyr Tyr Thr Ala Gly Gly Asn Ile
 65 70 75 80
 Thr Gly Phe Gln Asn Gly Leu Ala Ile Ala Gly Asp Phe Met Ser Ala
 85 90 95
 Ala Ser Phe Leu Gly Ile Ser Ala Leu Val Tyr Thr Ser Gly Tyr Asp
 100 105 110
 Gly Leu Ile Tyr Ser Leu Gly Phe Leu Val Gly Trp Pro Ile Ile Leu
 115 120 125
 Phe Leu Ile Ala Glu Arg Leu Arg Asn Leu Gly Arg Tyr Thr Phe Ala
 130 135 140
 Asp Val Ala Ser Tyr Arg Leu Lys Gln Gly Pro Ile Arg Thr Leu Ser
 145 150 155 160
 Ala Cys Gly Ser Leu Val Val Val Ala Leu Tyr Leu Ile Ala Gln Met
 165 170 175
 Val Gly Ala Gly Lys Leu Ile Glu Leu Leu Phe Gly Leu Asn Tyr His
 180 185 190
 Ile Ala Val Val Leu Val Gly Val Leu Met Val Met Tyr Val Leu Phe
 195 200 205
 Gly Gly Met Leu Ala Thr Thr Trp Val Gln Ile Ile Lys Ala Val Leu
 210 215 220
 Leu Leu Phe Gly Ala Ser Phe Met Ala Phe Met Val Met Lys His Val
 225 230 235 240

Gly Phe Ser Phe Asn Asn Leu Phe Thr Glu Ala Met Ser Val His Pro
 245 250 255
 Lys Gly Glu Ala Ile Met Ser Pro Gly Gly Leu Val Lys Asp Pro Ile
 260 265 270
 Ser Ala Leu Ser Leu Gly Leu Gly Leu Met Phe Gly Thr Ala Gly Leu
 275 280 285
 Pro His Ile Leu Met Arg Phe Phe Thr Val Ser Asp Ala Arg Glu Ala
 290 295 300
 Arg Lys Ser Val Phe Tyr Ala Thr Gly Phe Met Gly Tyr Phe Tyr Ile
 305 310 315 320
 Leu Thr Phe Ile Ile Gly Phe Gly Ala Ile Met Leu Val Gly Ala Asn
 325 330 335
 Pro Ala Phe Lys Asp Ala Ala Gly Ala Leu Ile Gly Gly Asn Asn Met
 340 345 350
 Ala Ala Val His Leu Ala Asp Ala Val Gly Gly Asn Leu Phe Leu Gly
 355 360 365
 Phe Ile Ser Ala Val Ala Phe Ala Thr Ile Leu Ala Val Val Ala Gly
 370 375 380
 Leu Thr Leu Ala Gly Ala Ser Ala Val Ser His Asp Leu Tyr Ala Asn
 385 390 395 400
 Val Phe Arg Lys Gly Ala Ser Glu Arg Asp Glu Leu Lys Val Ser Lys
 405 410 415
 Ile Thr Val Leu Val Leu Gly Val Val Ala Ile Leu Leu Gly Ile Leu
 420 425 430
 Phe Glu Lys Gln Asn Ile Ala Phe Met Val Gly Leu Ala Phe Ser Ile
 435 440 445
 Ala Ala Ser Cys Asn Phe Pro Ile Ile Leu Leu Ser Met Tyr Trp Ser
 450 455 460
 Lys Leu Thr Thr Arg Gly Ala Met Ile Gly Gly Trp Leu Gly Leu Leu
 465 470 475 480
 Thr Ala Val Ile Leu Met Ile Leu Gly Pro Thr Ile Trp Val Gln Ile
 485 490 495
 Leu Gly His Glu Ser Ala Ile Phe Pro Tyr Glu Tyr Pro Ala Leu Phe
 500 505 510
 Ser Ile Ala Val Ala Phe Ile Gly Ile Trp Val Phe Ser Ala Thr Asp
 515 520 525
 Asn Ser Pro Glu Gly Asn Leu Glu Arg Glu Lys Phe Arg Ala Gln Phe
 530 535 540
 Ile Arg Ser Gln Thr Gly Leu Gly Val Glu Gln Gly Arg Ala His
 545 550 555 560

<210> 9507

<211> 401

<212> PRT

<213> Enterobacter cloacae

<400> 9507

Arg Met Ala Asp Met Lys Ile Lys Thr Gly Ala Arg Val Phe Ala Leu
 1 5 10 15
 Ser Ala Leu Ala Ala Met Met Ile Ser Ala Pro Ala Leu Ala Lys Ile
 20 25 30
 Glu Glu Gly Lys Leu Val Ile Trp Ile Asn Gly Asp Lys Gly Tyr Asn
 35 40 45
 Gly Leu Ala Glu Val Gly Lys Lys Phe Glu Lys Asp Thr Gly Ile Lys
 50 55 60
 Val Thr Val Glu His Pro Asp Lys Leu Glu Glu Lys Phe Pro Gln Val
 65 70 75 80
 Ala Ala Thr Gly Asp Gly Pro Asp Ile Ile Phe Trp Ala His Asp Arg
 85 90 95
 Phe Gly Gly Tyr Ala Gln Ser Gly Leu Leu Ala Glu Val Thr Pro Asp
 100 105 110

```

Lys Ala Phe Gln Asp Lys Leu Phe Pro Phe Thr Trp Asp Ala Val Arg
      115                      120                      125
Tyr Asn Gly Lys Leu Ile Ala Tyr Pro Ile Ala Val Glu Ala Leu Ser
      130                      135                      140
Leu Ile Tyr Asn Lys Asp Leu Val Pro Asn Pro Pro Lys Thr Trp Glu
      145                      150                      155                      160
Glu Ile Pro Ala Leu Asp Lys Glu Leu Lys Ala Lys Gly Lys Ser Ala
      165                      170                      175
Leu Met Phe Asn Leu Gln Glu Pro Tyr Phe Thr Trp Pro Leu Ile Ala
      180                      185                      190
Ala Asp Gly Gly Tyr Ala Phe Lys Phe Glu Asn Gly Lys Tyr Asp Val
      195                      200                      205
Lys Asp Val Gly Val Asp Ser Ala Gly Ala Lys Lys Gly Leu Thr Phe
      210                      215                      220
Leu Val Asp Leu Ile Lys Asn Lys His Met Asn Ala Asp Thr Asp Tyr
      225                      230                      235                      240
Ser Ile Ala Glu Ala Ala Phe Asn Lys Gly Glu Thr Ala Met Thr Ile
      245                      250                      255
Asn Gly Pro Trp Ala Trp Thr Asn Ile Asp Lys Ser Lys Ile Asn Tyr
      260                      265                      270
Gly Val Thr Leu Leu Pro Thr Phe Asn Gly Lys Pro Ser Lys Pro Phe
      275                      280                      285
Val Gly Val Leu Ser Ala Gly Ile Asn Ala Ala Ser Pro Asn Lys Glu
      290                      295                      300
Leu Ala Lys Glu Phe Leu Glu Asn Tyr Leu Leu Thr Asp Gln Gly Leu
      305                      310                      315                      320
Asp Glu Val Asn Lys Asp Lys Pro Leu Gly Ala Val Ala Leu Lys Ser
      325                      330                      335
Phe Gln Asp Gln Leu Ala Lys Asp Pro Arg Ile Ala Ala Thr Met Asp
      340                      345                      350
Asn Ala Gln Lys Gly Glu Ile Met Pro Asn Ile Pro Gln Met Ala Ala
      355                      360                      365
Phe Trp Tyr Ala Thr Arg Thr Ala Val Ile Asn Ala Ala Ser Gly Arg
      370                      375                      380
Gln Thr Val Asp Ala Ala Leu Lys Asp Ala Gln Gly Arg Ile Thr Lys
      385                      390                      395                      400

```

<210> 9508

<211> 303

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (248)

<400> 9508

```

Leu Arg Arg Ala Leu Asn Met Ala Met Val Gln Pro Lys Ser Gln Lys
1      5                      10                      15
Leu Arg Leu Leu Ala Thr His Leu Gly Leu Leu Ile Phe Ile Ala Ala
      20                      25                      30
Ile Met Phe Pro Leu Leu Met Val Ile Ala Ile Ser Leu Arg Ser Gly
      35                      40                      45
Asn Phe Ala Thr Gly Ser Leu Ile Pro Asp Glu Ile Ser Trp Glu His
      50                      55                      60
Trp Lys Leu Ala Leu Gly Phe Ser Val Glu His Ala Asp Gly Arg Val
      65                      70                      75                      80
Thr Pro Pro Pro Phe Pro Val Leu Leu Trp Leu Trp Asn Ser Val Lys
      85                      90                      95

```

Val Ala Thr Ile Thr Ala Ile Gly Ile Val Thr Leu Ser Thr Thr Cys
 100 105 110
 Ala Tyr Ala Phe Ala Arg Met Arg Phe Pro Gly Lys Ala Thr Leu Leu
 115 120 125
 Lys Val Met Leu Ile Phe Gln Met Phe Pro Ala Val Leu Ser Leu Val
 130 135 140
 Ala Leu Tyr Ala Val Phe Asp Arg Leu Gly Gln Tyr Val Pro Phe Ile
 145 150 155 160
 Gly Leu Asn Thr His Gly Gly Val Ile Phe Ala Tyr Leu Gly Gly Ile
 165 170 175
 Ala Leu His Val Trp Thr Ile Lys Gly Tyr Phe Glu Thr Ile Asp Gly
 180 185 190
 Ser Leu Glu Ala Ala Ala Leu Asp Gly Ala Thr Pro Trp Gln Ala
 195 200 205
 Phe Arg Leu Val Leu Leu Pro Leu Ser Val Pro Ile Leu Ala Val Val
 210 215 220
 Phe Ile Leu Ser Phe Ile Ala Ala Ile Thr Glu Val Pro Val Ala Ser
 225 230 235 240
 Leu Leu Leu Arg Asp Val Asn Xaa Tyr Thr Leu Ala Val Gly Met Gln
 245 250 255
 Gln Tyr Leu Asn Pro Gln Asn Tyr Leu Trp Gly Asp Phe Ala Ala Ala
 260 265 270
 Ala Val Leu Ser Ala Ile Pro Ile Thr Val Val Phe Leu Leu Ala Gln
 275 280 285
 Arg Trp Leu Val Asn Gly Leu Thr Ala Gly Gly Val Lys Gly
 290 295 300

<210> 9509

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 9509

Ala Asp Leu Gln Pro Gly Cys Ser Pro Gln Ala Gly Cys Arg Arg Arg
 1 5 10 15
 Ala Thr Phe Ser Arg Cys Gly Asn Ala Ala Ser Arg Trp Trp Pro Asp
 20 25 30
 Pro Ala Ser Pro Ile Ser Ala Ala Arg Phe His Arg Lys Arg Ala Pro
 35 40 45
 Gln Thr Val Ala Asp His Arg Leu Ala Ala Cys Thr Gly Trp His Thr
 50 55 60
 Ala Cys Ser Glu Val Arg His Arg Ser Asp Ala Arg Pro Ala Cys Arg
 65 70 75 80
 Thr Cys Cys Pro Thr Val Ser Gly Pro Ala Leu Trp Trp
 85 90

<210> 9510

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 9510

Asn Lys Pro Thr Leu Leu Glu Ile Ser Val Met Asn Asn Asp Ile
 1 5 10 15
 Cys Gln Gln Ile Glu Asn Ser Ala His Tyr Arg Glu Leu Val Glu Lys
 20 25 30
 Arg Gln Arg Phe Ala Phe Leu Leu Ser Ile Ile Met Leu Ile Ile Tyr
 35 40 45
 Val Gly Phe Ile Leu Leu Ile Ala Phe Ala Pro His Trp Leu Gly Thr
 50 55 60
 Pro Leu His Glu Gly Thr Ser Val Thr Arg Gly Ile Pro Ile Gly Ile

65					70					75				80
Gly	Val	Ile	Ile	Ile	Ser	Phe	Val	Leu	Thr	Gly	Val	Tyr	Val	Trp
				85					90					95
Ala	Asn	Gly	Glu	Phe	Asp	Arg	Leu	Asn	Arg	Glu	Val	Leu	Arg	Glu
			100					105					110	Val
Lys	Ala	Ser												
		115												

<210> 9511

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 9511

Phe	Arg	Gly	Ile	Ile	Met	Asp	Ile	Arg	Thr	Leu	Arg	Tyr	Phe	Val	Glu
1				5					10					15	
Val	Val	Arg	Gln	Ser	Phe	Thr	Arg	Ala	Ala	Glu	Lys	Leu	Phe	Val	
			20				25					30			
Thr	Gln	Pro	Thr	Ile	Ser	Lys	Met	Leu	Lys	Asn	Leu	Glu	Asp	Glu	Leu
		35					40					45			
Asn	Cys	Thr	Leu	Leu	Ile	Arg	Asp	Gly	Arg	Lys	Leu	Leu	Leu	Thr	Asp
	50					55					60				
Thr	Gly	Arg	Val	Val	Phe	Glu	Arg	Gly	Leu	Ala	Ile	Leu	Ala	Glu	Phe
65					70				75					80	
Arg	Gln	Leu	Glu	Ala	Glu	Leu	Gly	Asp	Ile	Asn	His	Leu	Thr	Lys	Gly
				85				90						95	
Leu	Leu	Arg	Leu	Gly	Ile	Pro	Pro	Met	Val	Gly	Met	Met	Met	Ala	Gly
			100					105					110		
Pro	Ile	Ser	Leu	Phe	Arg	Gln	Arg	Tyr	Pro	Gly	Val	Glu	Leu	Lys	Ile
		115					120					125			
Ser	Glu	Phe	Gly	Gly	Leu	Thr	Val	Gln	Gln	Ala	Val	Met	Asn	Gly	Glu
		130					135				140				
Leu	Asp	Val	Ala	Met	Thr	Ala	Leu	Pro	Val	Glu	Glu	Glu	Ser	Gly	Leu
145					150					155					160
Ala	Thr	Leu	Pro	Leu	Phe	Ser	His	Pro	Leu	Cys	Val	Leu	Val	Pro	Arg
				165				170						175	
Ser	Gly	Asp	Trp	Leu	Lys	Ile	Asp	Ala	Val	Lys	Pro	Glu	Leu	Leu	Gly
		180					185						190		
Glu	His	Pro	Leu	Leu	Ile	Tyr	Asn	Glu	Asp	Phe	Ala	Leu	Ser	Arg	Gln
		195					200					205			
Leu	Met	Ala	Leu	Phe	Asn	Gln	His	Asn	Val	Lys	Pro	Arg	Ile	Ala	Val
		210				215					220				
Arg	Ser	Gly	Gln	Trp	Asp	Phe	Leu	Ala	Ala	Met	Val	Gln	Ala	Gly	Val
				225						235					240
Gly	Ile	Ala	Ile	Leu	Pro	Gln	Pro	Ile	Cys	Glu	Arg	Leu	Asp	Lys	Asn
				245					250					255	
Thr	Leu	Arg	Trp	Ile	Pro	Leu	Glu	Ser	Asp	Leu	His	Trp	Gln	Leu	Gly
			260				265						270		
Met	Ile	Trp	Arg	Glu	Gly	Val	Tyr	Leu	Ser	His	Ser	Ala	Gln	Ala	Trp
		275					280					285			
Leu	Gln	Cys	Cys	Glu	Gly	Phe	Trp	Val	Pro						
		290				295									

<210> 9512

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 9512

Lys	Val	Gly	Leu	Phe	Glu	Arg	Tyr	Leu	Gln	Arg	Met	Phe	Arg	Thr	Val
1				5					10					15	

Met His Gln Thr Leu Gly Asp Tyr Ile Arg Gln Arg Arg Leu Leu Leu
 20 25 30
 Ala Ala Gln Ala Leu Arg Ser Thr Gln Arg Pro Ile Phe Asp Ile Ala
 35 40 45
 Met Asp Leu Gly Tyr Val Ser Gln Gln Thr Phe Ser Arg Val Phe Arg
 50 55 60
 Arg Glu Phe Asp Arg Thr Pro Ser Asp Tyr Arg His Gln Leu Asn
 65 70 75 80

<210> 9513

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 9513

Arg Glu Thr Leu Phe His Ser Ser Ser Val Leu Ser Arg Met Ser
 1 5 10 15
 Phe Met Ala Thr Ile Thr Thr Ser Met Val Leu Leu Arg Trp Pro Leu
 20 25 30
 Leu Ser Ala Val Leu Met Phe Leu Ala Ser Thr Leu Asn Ile Gln Phe
 35 40 45
 Arg Lys Ser Asp Tyr Ala Gly Leu Ala Val Ile Ser Thr Leu Leu Gly
 50 55 60
 Leu Gly Ala Ala Cys Trp Phe Ala Thr Gly Leu Gly Ile Thr Leu
 65 70 75 80
 Val Asp Ile Ala Ala Val Trp Glu Asn Ile Lys Val Val Met Val Glu
 85 90 95
 Ala Met Ser His Thr Pro Pro Asp Trp Pro Met Val Ile Thr
 100 105 110

<210> 9514

<211> 941

<212> PRT

<213> Enterobacter cloacae

<400> 9514

Met Asp Lys Ile Glu Val Arg Gly Ala Arg Thr His Asn Leu Lys Asn
 1 5 10 15
 Ile Asn Leu Ile Ile Pro Arg Asp Lys Leu Ile Val Val Thr Gly Leu
 20 25 30
 Ser Gly Ser Gly Lys Ser Ser Leu Ala Phe Asp Thr Leu Tyr Ala Glu
 35 40 45
 Gly Gln Arg Arg Tyr Val Glu Ser Leu Ser Ala Tyr Ala Arg Gln Phe
 50 55 60
 Leu Ser Leu Met Glu Lys Pro Asp Val Asp His Ile Glu Gly Leu Ser
 65 70 75 80
 Pro Ala Ile Ser Ile Glu Gln Lys Ser Thr Ser His Asn Pro Arg Ser
 85 90 95
 Thr Val Gly Thr Ile Thr Glu Ile His Asp Tyr Leu Arg Leu Leu Tyr
 100 105 110
 Ala Arg Val Gly Glu Pro Arg Cys Pro Asp His Asp Val Pro Leu Ala
 115 120 125
 Ala Gln Thr Val Ser Gln Met Val Asp Asn Val Leu Ser Gln Pro Glu
 130 135 140
 Gly Lys Arg Leu Met Leu Leu Ala Pro Ile Ile Lys Glu Arg Lys Gly
 145 150 155 160
 Glu His Thr Lys Thr Leu Glu Asn Leu Ala Ser Gln Gly Tyr Ile Arg
 165 170 175
 Ala Arg Ile Asp Gly Glu Val Cys Asp Leu Ser Asp Pro Pro Lys Leu
 180 185 190
 Glu Leu Gln Lys Lys His Thr Ile Glu Val Val Ile Asp Arg Phe Lys


```

Asp Gln Ser Pro Ile Gly Arg Thr Pro Arg Ser Asn Pro Ala Thr Tyr
690                                     695       700
Thr Gly Val Phe Thr Pro Val Arg Glu Leu Phe Ala Gly Val Pro Glu
705                                     710       715       720
Ala Arg Ser Arg Gly Tyr Thr Pro Gly Arg Phe Ser Phe Asn Val Arg
725                                     730       735
Gly Gly Arg Cys Glu Ala Cys Gln Gly Asp Gly Val Ile Lys Val Glu
740                                     745       750
Met His Phe Leu Pro Asp Ile Tyr Val Pro Cys Asp Gln Cys Lys Gly
755                                     760       765
Lys Arg Tyr Asn Arg Glu Thr Leu Glu Ile Lys Tyr Lys Gly Lys Thr
770                                     775       780
Ile His Glu Val Leu Asp Met Thr Ile Glu Glu Ala Arg Glu Phe Phe
785                                     790       795       800
Asp Ala Val Pro Ala Leu Ala Arg Lys Leu Gln Thr Leu Met Asp Val
805                                     810       815
Gly Leu Thr Tyr Ile Arg Leu Gly Gln Ser Ala Thr Thr Leu Ser Gly
820                                     825       830
Gly Glu Ala Gln Arg Val Lys Leu Ala Arg Glu Leu Ser Lys Arg Gly
835                                     840       845
Thr Gly Gln Thr Leu Tyr Ile Leu Asp Glu Pro Thr Thr Gly Leu His
850                                     855       860
Phe Ala Asp Ile Gln Gln Leu Leu Asp Val Leu His Gln Leu Arg Asp
865                                     870       875       880
Gln Gly Asn Thr Ile Val Val Ile Glu His Asn Leu Asp Val Ile Lys
885                                     890       895
Thr Ala Asp Trp Ile Val Asp Leu Gly Pro Glu Gly Gly Ser Gly Gly
900                                     905       910
Gly Glu Ile Leu Val Ser Gly Thr Pro Glu Thr Val Ala Glu Cys Glu
915                                     920       925
Ala Ser His Thr Ala Arg Phe Leu Lys Pro Leu Leu
930                                     935       940

```

<210> 9515

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 9515

```

Arg Phe Arg Asp Gly Phe Gly Phe Gly Leu Ala Thr Ser Gly His Glu
1      5      10      15
Val Asn Ala Val Ala Ala Leu Tyr Val His Gly Asp Gln Arg Ala Gly
20      25      30
Asn Leu Phe Arg Asp Thr Glu Leu Ile Pro Ala Val Val His Leu Phe
35      40      45
Pro Glu Phe Arg Val Phe Gln Ile Gly Phe Ala Val Arg Gly Val Arg
50      55      60
Phe Phe Ala Ala Pro Glu Thr Gly Ala Gly Glu Glu Asn Gly Ile Val
65      70      75      80
Asn Ile Glu Ala His Gly His Arg Arg Ala Thr Arg Gln Ala Val Phe
85      90      95
Asn Leu Cys His
100

```

<210> 9516

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 9516

Pro Gly Asp Leu Ile Ile Thr Leu Thr Arg Phe Ser Leu Phe Val Glu


```

1           5           10           15
Gly Phe Val Ser Cys His Ser Glu Trp Ser Tyr Arg Asp Lys Glu Trp
20           25           30
Val Glu Arg Leu Pro His Ser Gly Gly Ser Met Ala Thr Arg Ile Glu
35           40           45
Phe His Lys His Gly Gly Pro Asp Val Leu Lys Ala Val Glu Phe Thr
50           55           60
Pro Ala Ala Pro Gly Glu Asn Glu Ile Gln Val Glu Asn Lys Ala Ile
65           70           75           80
Gly Ile Asn Tyr Ile Asp Thr Tyr Ile Arg Gly Gly Leu Tyr Pro Pro
85           90           95
Pro Ser Met Pro Ser Gly Leu Gly Thr Glu Ala Ala Gly Ile Val Ser
100          105          110
Lys Val Gly Ser Ala Val Lys His Ile Lys Glu Gly Asp Arg Val Val
115          120          125
Tyr Ala Gln Ser Ala Leu Gly Ala Tyr Ser Ser Ile His Asn Val Pro
130          135          140
Ala Glu Lys Ala Ala Leu Leu Pro Asn Ala Ile Gly Phe Glu Gln Ala
145          150          155          160
Ala Ala Ser Phe Leu Lys Gly Leu Thr Val Tyr Tyr Leu Leu Arg Lys
165          170          175          180
Thr Tyr Glu Ile Lys Pro Asp Glu Gln Phe Leu Phe His Ala Ala Ala
185          190          195
Gly Gly Val Gly Leu Ile Ala Cys Gln Trp Ala Lys Ala Leu Gly Ala
200          205          210
Lys Leu Ile Gly Thr Thr Gly Ser Ala Gln Lys Ala Gln Arg Ala Leu
215          220          225
Asp Ala Gly Ala Trp Gln Val Ile Asn Tyr Arg Glu Glu Ser Ile Val
230          235          240
Glu Arg Leu Lys Glu Ile Thr Gly Gly Lys Lys Val Arg Val Val Tyr
245          250          255
Asp Ser Val Gly Lys Asp Thr Trp Glu Ser Ser Leu Asp Cys Leu Gln
260          265          270
Arg Arg Gly Leu Met Val Ser Phe Gly Asn Ala Ser Gly Ala Val Thr
275          280          285
Gly Val Asn Leu Gly Ile Leu Asn Gln Lys Gly Ser Leu Tyr Val Thr
290          295          300
Arg Pro Ser Leu Gln Gly Tyr Ile Thr Asn Arg Glu Glu Leu Glu Glu
305          310          315          320
Ala Ser Asn Glu Leu Phe Ser Leu Ile Ala Ser Gly Val Ile Lys Val
325          330          335
Asp Val Ala Glu Ala Gln Lys Tyr Pro Leu Thr Asp Ala Gln Arg Ala
340          345          350
His Glu Val Leu Glu Ser Arg Ala Thr Gln Gly Ser Ser Leu Leu Ile
355          360          365
Pro
370

```

<210> 9517

<211> 834

<212> PRT

<213> Enterobacter cloacae

<400> 9517

```

Arg Val Thr Thr Glu Ile Leu Arg Ala Phe Cys Tyr Pro Cys Ala Ala
1           5           10           15
Ile Ala Leu Leu Thr Arg Gly Phe Thr Ser Phe Met Ser Gly Trp Pro
20           25           30
Arg Ile Tyr Tyr Lys Leu Leu Asn Leu Pro Leu Ser Val Leu Val Lys
35           40           45
Ser Lys Ser Ile Pro Ala Glu Pro Ala Leu Glu Leu Gly Leu Asp Thr

```

	50					55					60				
Ser 65	Arg	Pro	Ile	Met	Tyr 70	Val	Leu	Pro	Tyr	Asn 75	Ser	Lys	Ala	Asp	Leu 80
Leu	Thr	Leu	Arg	Ala 85	Gln	Cys	Leu	Ala	His 90	Asp	Leu	Pro	Asp	Pro 95	Leu
Glu	Pro	Leu	Glu 100	Val	Asp	Gly	Thr	Leu 105	Leu	Pro	Arg	Tyr	Val 110	Phe	Ile
His	Gly	Gly 115	Pro	Arg	Val	Phe	Thr 120	Tyr	Tyr	Thr	Pro	Lys 125	Glu	Glu	Ser
Ile	Lys 130	Leu	Phe	His	Asp	Tyr 135	Leu	Asp	Leu	His	Arg 140	Ser	Asn	Pro	Asp
Leu 145	Asp	Val	Gln	Met	Val 150	Pro	Val	Ser	Val	Met 155	Phe	Gly	Arg	Arg	Pro 160
Gly	Arg	Glu	Lys 165	Gly	Glu	Glu	Asn	Pro	Pro 170	Leu	Arg	Met	Leu	Asn 175	Gly
Ile	Gln	Lys 180	Phe	Ala	Val	Ser	Trp 185	Leu	Gly	Arg	Asp	Ser 190	Phe	Val	
Arg	Phe 195	Ser	Pro	Ser	Val	Ser	Leu 200	Arg	Arg	Met	Ala 205	Glu	His	Gly	
Thr	Asp 210	Lys	Ile	Ile	Ala 215	Gln	Lys	Leu	Ala	Arg	Val 220	Ala	Arg	Met	His
Phe 225	Ala	Arg	Gln	Arg	Leu 230	Ala	Ala	Val	Gly	Pro 235	Arg	Leu	Pro	Ala	Arg 240
Gln	Asp	Leu	Phe 245	Asn	Lys	Leu	Leu	Ala	Ser 250	Lys	Ala	Ile	Ala	Arg 255	Ala
Val	Glu	Asp	Glu 260	Ala	Arg	Ser	Lys	Lys 265	Ile	Ser	His	Glu	Lys 270	Ala	Gln
Gln	Asn 275	Ala	Ile	Ala	Leu	Met	Glu 280	Glu	Ile	Ala	Ala 285	Asn	Phe	Ser	Tyr
Glu	Met 290	Ile	Arg	Leu	Ser	Asp 295	Arg	Ile	Leu	Gly	Phe 300	Thr	Trp	Asn	Arg
Leu 305	Tyr	Gln	Gly	Ile	Asn 310	Val	His	Asn	Ala	Glu 315	Arg	Val	Arg	Gln	Leu 320
Ala	His	Asp	Gly 325	His	Glu	Ile	Val	Tyr	Val 330	Pro	Cys	His	Arg	Ser 335	His
Met	Asp	Tyr	Leu 340	Leu	Leu	Ser	Tyr	Val 345	Leu	Tyr	His	Gln	Gly 350	Leu	Val
Pro	Pro	His 355	Ile	Ala	Ala	Gly	Ile 360	Asn	Leu	Asn	Phe	Trp 365	Pro	Ala	Gly
Pro	Ile 370	Phe	Arg	Arg	Leu	Gly 375	Ala	Phe	Phe	Ile	Arg 380	Arg	Thr	Phe	Lys
Gly 385	Asn	Lys	Leu	Tyr	Ser 390	Thr	Val	Phe	Arg	Glu 395	Tyr	Leu	Gly	Glu	Leu 400
Phe	Ser	Arg	Gly 405	Tyr	Ser	Val	Glu	Tyr	Phe 410	Val	Glu	Gly	Gly	Arg 415	Ser
Arg	Thr	Gly 420	Arg	Leu	Leu	Asp	Pro	Lys 425	Thr	Gly	Thr	Leu	Ser 430	Met	Thr
Ile	Gln	Ala 435	Met	Leu	Arg	Gly	Gly 440	Thr	Arg	Pro	Ile	Thr 445	Leu	Val	Pro
Ile	Tyr 450	Ile	Gly	Tyr	Glu	His 455	Val	Met	Glu	Val	Gly 460	Thr	Tyr	Ala	Lys
Glu 465	Leu	Arg	Gly	Ala 470	Thr	Lys	Glu	Lys	Glu	Ser 475	Leu	Pro	Gln	Met	Leu 480
Arg	Gly	Leu	Ser 485	Lys	Leu	Arg	Asn	Leu	Gly 490	Gln	Gly	Tyr	Val	Asn 495	Phe
Gly	Glu	Pro	Leu 500	Pro	Leu	Met	Thr	Tyr 505	Leu	Asn	His	His	Val 510	Pro	Glu
Trp	Arg	Glu 515	Ser	Ile	Asp	Pro	Ile 520	Glu	Ala	Val	Arg	Pro 525	Ala	Trp	Leu
Thr	Pro 530	Thr	Val	Asn	Gly	Ile 535	Ala	Ser	Glu	Leu	Met 540	Val	Arg	Ile	Asn

Asn Ala Gly Ala Ala Asn Ala Met Asn Leu Cys Cys Thr Ala Leu Leu
 545 550 555 560
 Ala Ser Arg Gln Arg Ser Leu Thr Arg Glu Gln Leu Thr Glu Gln Ile
 565 570 575
 Asp Cys Tyr Leu Asp Ile Met Arg Asn Val Pro Tyr Ser Val Asp Ser
 580 585 590
 Thr Val Pro Ser Ala Thr Ala Ser Glu Leu Ile Asp His Ala Leu Gln
 595 600 605
 Met Asn Lys Phe Glu Val Glu Lys Asp Thr Ile Gly Asp Ile Ile Ile
 610 615 620
 Leu Pro Arg Glu Gln Ala Val Leu Met Thr Tyr Tyr Arg Asn Asn Ile
 625 630 635 640
 Thr His Met Leu Met Leu Pro Ser Leu Met Ala Ala Ile Ile Thr Gln
 645 650 655
 His Arg Arg Ile Ser Arg Gln Glu Leu Leu Arg His Ile Gln Ala Ile
 660 665 670
 Tyr Pro Met Leu Lys Ala Glu Leu Phe Leu Arg Trp Ser Lys Asp Glu
 675 680 685
 Leu Ala Ala Glu Leu Asp Lys Met Thr Ala Glu Met His Arg Gln Gly
 690 695 700
 Leu Ile Thr Ile Ser Asp Asp Glu Leu His Ile Asn Pro Ser Arg Ser
 705 710 715 720
 Arg Thr Leu Gln Leu Leu Ala Ser Gly Ala Arg Glu Thr Leu Gln Arg
 725 730 735
 Tyr Ala Ile Thr Phe Trp Leu Leu Ser Ala Asn Pro Ser Ile Asn Arg
 740 745 750
 Gly Thr Leu Glu Lys Glu Ser Arg Thr Leu Ala Gln Arg Leu Ser Val
 755 760 765
 Leu His Gly Ile Asn Ala Pro Glu Phe Phe Asp Lys Ala Val Phe Ser
 770 775 780
 Ser Leu Val Leu Thr Leu Arg Asp Glu Gly Tyr Ile Ser Asp Thr Gly
 785 790 795 800
 Asp Ala Glu Pro Glu Glu Thr Met Lys Val Tyr Gln Met Leu Ala Glu
 805 810 815
 Leu Ile Thr Ala Asp Val Arg Leu Thr Ile Glu Ser Ser Thr Gln Gly
 820 825 830
 Glu

<210> 9518

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 9518

Arg Lys Asn Pro Met Asp Val Ile Lys Lys Lys His Trp Trp Gln Ser
 1 5 10 15
 Asp Ala Leu Lys Trp Ser Val Ile Gly Leu Leu Cys Leu Leu Val Gly
 20 25 30
 Tyr Leu Val Val Leu Met Tyr Val Gln Gly Glu Tyr Leu Phe Ala Ile
 35 40 45
 Met Thr Leu Ile Leu Ser Ser Val Gly Leu Tyr Ile Phe Ala Asn Arg
 50 55 60
 Lys Ala Tyr Ala Trp Arg Tyr Tyr Pro Gly Val Ala Gly Met Gly
 65 70 75 80
 Leu Phe Val Leu Phe Pro Leu Ile Cys Thr Ile Ala Ile Ala Phe Thr
 85 90 95
 Asn Tyr Ser Ser Thr Asn Gln Leu Ala Gln Glu Arg Ala Thr Gln Val
 100 105 110
 Leu Leu Asp Arg Ser Tyr Gln Ala Gly Lys Thr Phe Asn Phe Gly Leu
 115 120 125

Tyr Pro Ala Gly Asp Glu Trp Lys Leu Ala Leu Thr Asp Gly Glu Ser
 130 135 140
 Gly Lys Thr Tyr Leu Ser Asp Ala Phe Lys Phe Gly Gly Glu Gln Lys
 145 150 155 160
 Leu Thr Leu Lys Glu Ala Ala Ala Leu Pro Glu Gly Glu Arg Ala Asn
 165 170 175
 Leu Arg Ile Ile Thr Gln Asn Arg Gln Ala Leu Thr Gln Leu Thr Ala
 180 185 190
 Val Leu Pro Asp Glu Ser Lys Val Ile Met Ser Ser Leu Arg Gln Phe
 195 200 205
 Ser Gly Thr Gln Pro Leu Tyr Thr Leu Ala Asp Asp Gly Thr Leu Thr
 210 215 220
 Asn Asn Gln Ser Gly Val Lys Tyr Arg Pro Asn Asn Asp Ile Gly Phe
 225 230 235 240
 Tyr Gln Ser Val Asn Ala Asp Gly Ser Trp Gly Asp Asp Lys Leu Ser
 245 250 255
 Pro Gly Tyr Thr Val Thr Ile Gly Trp Asp Asn Phe Thr Arg Val Phe
 260 265 270
 Thr Asp Glu Gly Ile Gln Lys Pro Phe Phe Ala Ile Phe Val Trp Thr
 275 280 285
 Val Val Phe Ser Val Leu Thr Val Ile Leu Thr Val Ala Val Gly Met
 290 295 300
 Val Leu Ala Cys Leu Val Gln Trp Glu Ser Leu Lys Gly Lys Ala Ile
 305 310 315 320
 Tyr Arg Val Leu Leu Ile Leu Pro Tyr Ala Val Pro Ser Phe Ile Ser
 325 330 335
 Ile Leu Ile Phe Lys Gly Leu Phe Asn Gln Ser Phe Gly Glu Ile Asn
 340 345 350
 Met Met Leu Ser Ala Leu Phe Gly Ile Lys Pro Ala Trp Phe Ser Asp
 355 360 365
 Pro Thr Thr Ala Arg Ser Met Ile Ile Val Asn Thr Trp Leu Gly
 370 375 380
 Tyr Pro Tyr Met Met Ile Leu Cys Met Gly Leu Lys Ala Ile Pro
 385 390 395 400
 Asp Asp Leu Tyr Glu Ala Ser Ala Met Asp Gly Ala Gly Pro Phe Gln
 405 410 415
 Asn Phe Phe Lys Ile Thr Leu Pro Leu Leu Ile Lys Pro Leu Thr Pro
 420 425 430
 Leu Met Ile Ala Ser Phe Ala Phe Asn Phe Asn Asn Phe Val Leu Ile
 435 440 445
 Gln Leu Leu Thr Asn Gly Gly Pro Asp Arg Leu Gly Thr Thr Pro
 450 455 460
 Ala Gly Tyr Thr Asp Leu Leu Val Ser Tyr Thr Tyr Arg Ile Ala Phe
 465 470 475 480
 Glu Gly Gly Gly Gly Gln Asp Phe Gly Leu Ala Ala Ala Ile Ala Thr
 485 490 495
 Leu Ile Phe Leu Leu Val Gly Ala Leu Ala Ile Val Asn Leu Lys Ala
 500 505 510
 Thr Arg Met Lys Phe Asp
 515

<210> 9519

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 9519

Gly Ala Ala Ala Thr Gly Gln Asp Phe Leu Arg Pro Asp Ala Leu Thr
 1 5 10 15
 Pro Ala Leu Ser His Arg Glu Arg Glu Ile Ile Ser Ser Glu Tyr Leu
 20 25 30

His His Ser Cys Lys Arg Leu Arg His Ala Leu Asp Val Ala Gly Ile
 35 40 45
 Gln Thr Arg His Ala His Thr Ala Ala Gly Asp Gln Val Asp Thr Glu
 50 55 60
 Leu Phe Thr Gln Ala Ile Asp Leu Arg Cys Ala Gln Ser Gly Val Ala
 65 70 75 80
 Glu His Pro Ala Leu Glu Lys Ile Ile Lys Val Met Pro Arg His
 85 90 95
 Gly Leu Phe Gln Asp Val Asn Gln Leu Leu Thr His Arg Gln Asp Ala
 100 105 110
 Leu Thr His Arg Phe His Phe Arg Lys Pro Gly Gly Phe Gln Ser Phe
 115 120 125
 Val Thr Glu Asn Cys Arg His His Leu Arg Thr Lys Val Arg Arg Ala
 130 135 140
 Gly Val Asp Thr Ala Asp Arg Arg Phe Gln Leu Ala Glu Tyr Ala Ser
 145 150 155 160
 Arg Gly Phe Gly Val Phe Thr His His Gly Gln Thr Ala Asn Ala Leu
 165 170 175
 Ala Val Gln Gly Glu Asp Phe
 180

<210> 9520

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 9520

Glu Gly Val Ala Asp Gln Ser Gly Lys Pro Arg Ala Gly Asn Arg Ala
 1 5 10 15
 Asn Gly Val Gly Val Phe Phe His Ala Arg Ala Lys Ala Leu Ile Gly
 20 25 30
 Asp Val Glu Glu Arg Asp Gln Val Thr Arg Leu Gln Tyr Leu Asp His
 35 40 45
 Arg Ile Pro Leu Gly Ile Gly Glu Val Arg Thr Arg Arg Val Met Ala
 50 55 60
 Ala Arg Met Gln Gln Tyr Asp Ala Ala Leu Arg Gln Gly Val Gln Phe
 65 70 75 80
 Phe Gln Gln Arg Ile Asn Ala His Ala Val Arg Phe Ala Val Glu Pro
 85 90 95
 Arg Ile Ser Phe Asn Leu Lys Ala Arg Ala Leu Glu Asp Arg Asn Val
 100 105 110
 Val Phe Pro Arg Arg Val Ala Asp Pro His Ala Gly Ile Arg Glu Val
 115 120 125
 Leu Phe Gln Glu Ile Cys Ala Tyr Leu Gln Arg Thr Arg Ala Thr Gln
 130 135 140
 Arg Leu Asp Ser Arg Tyr Ala Leu Leu Arg Glu His Arg Val Val Arg
 145 150 155 160
 Thr Lys Gln Gln Arg Arg Asp Ser Val Ala Val Gly Val
 165 170

<210> 9521

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 9521

Ser Glu Ser Phe His Pro Leu Pro His Pro Arg Cys Pro Met Asp Lys
 1 5 10 15
 Ser Thr Lys Glu Leu Leu Ala Gln Ala Glu Lys Leu Cys Ala Gln Arg
 20 25 30
 Asn Val Arg Leu Thr Pro Gln Arg Leu Glu Val Leu Arg Leu Met Ser

35 40 45
 Leu Gln Gln Gly Ala Ile Ser Ala Tyr Asp Leu Leu Asp Leu Leu Arg
 50 55 60
 Glu Ser Glu Pro Gln Ala Lys Pro Pro Thr Val Tyr Arg Ala Leu Asp
 65 70 75 80
 Phe Leu Leu Glu Gln Gly Phe Val His Lys Val Glu Ser Thr Asn Ser
 85 90 95
 Tyr Val Leu Cys His Leu Phe Asp Gln Pro Thr His Thr Ser Ala Met
 100 105 110
 Phe Ile Cys Asp Arg Cys Gly Val Val Lys Glu Glu Cys Ala Glu Gly
 115 120 125
 Val Glu Asp Ile Met His Thr Leu Ala Ala Arg Met Gly Phe Ala Leu
 130 135 140
 Arg His Asn Val Ile Glu Ala His Gly Leu Cys Ser Ala Cys Val Glu
 145 150 155 160
 Val Glu Ser Cys Arg His Gln Asp Asp Cys Gln His Asp His Ser Ile
 165 170 175
 Leu Val Lys Lys Lys Pro Arg
 180

<210> 9522
 <211> 72
 <212> PRT
 <213> Enterobacter cloacae

<400> 9522
 Ser Gly Ser Gly Thr Thr Thr Ser Ser Ala Leu Lys Pro Lys Arg Phe
 1 5 10 15
 Cys Arg Thr Thr Ser Thr Cys Thr Ala Leu Arg Pro Thr Ser Ser Arg
 20 25 30
 Ala Thr Trp Asn Pro Thr Ala Ser Thr Leu Thr Val Thr Ala Thr Arg
 35 40 45
 Trp Ile Thr Arg Leu Ala Gln Ser Ser Gly Ala Ser Arg Ala Pro Thr
 50 55 60
 Val Ser Thr Arg Ser Thr Ser
 65 70

<210> 9523
 <211> 713
 <212> PRT
 <213> Enterobacter cloacae

<400> 9523
 Cys Arg Tyr Pro Ser Leu Pro Asp Thr Ala Asp Thr Gly Ile Met Lys
 1 5 10 15
 Lys Thr Tyr Leu Tyr Ser Met Leu Ala Leu Cys Val Ser Ala Ala Cys
 20 25 30
 His Ala Glu Thr Tyr Pro Ala Pro Ile Gly Pro Ser Gln Ser Asp Phe
 35 40 45
 Gly Gly Val Gly Leu Leu Gln Thr Pro Thr Ala Arg Met Ala Arg Glu
 50 55 60
 Gly Glu Ile Ser Leu Asn Tyr Arg Asp Asn Asp Gln Tyr Arg Tyr Tyr
 65 70 75 80
 Ser Ala Ser Val Gln Leu Phe Pro Trp Leu Glu Thr Thr Leu Arg Tyr
 85 90 95
 Thr Asp Val Arg Thr Lys Gln Tyr Ser Ser Val Asp Ala Phe Ser Gly
 100 105 110
 Asp Gln Thr Tyr Lys Asp Lys Ala Phe Asp Val Lys Leu Arg Leu Trp
 115 120 125
 Glu Glu Ser Tyr Trp Met Pro Gln Val Ser Val Gly Ala Lys Asp Ile
 130 135 140

Gly	Gly	Thr	Gly	Leu	Phe	Asp	Ala	Glu	Tyr	Ile	Val	Ala	Ser	Lys	Ala
145					150					155					160
Trp	Gly	Pro	Phe	Asp	Phe	Ser	Leu	Gly	Leu	Gly	Trp	Gly	Tyr	Leu	Gly
				165					170						175
Thr	Ser	Gly	Asn	Val	Lys	Asn	Pro	Phe	Cys	Ser	Tyr	Ser	Asp	Lys	Tyr
			180					185					190		
Cys	Tyr	Arg	Asp	Asn	Ser	Tyr	Gln	Lys	Ala	Gly	Ser	Ile	Asn	Gly	Asp
		195					200					205			
Gln	Met	Phe	His	Gly	Pro	Ala	Ser	Leu	Phe	Gly	Gly	Val	Glu	Tyr	Gln
	210					215					220				
Thr	Pro	Trp	Gln	Pro	Leu	Arg	Leu	Lys	Leu	Glu	Tyr	Glu	Gly	Asn	Asn
225					230					235					240
Tyr	Ser	Glu	Asp	Phe	Ala	Gly	Lys	Ile	Glu	Gln	Lys	Ser	Lys	Phe	Asn
				245					250						255
Val	Gly	Ala	Ile	Tyr	Arg	Val	Thr	Asp	Trp	Ala	Asp	Val	Asn	Leu	Ser
			260					265					270		
Tyr	Glu	Arg	Gly	Asn	Thr	Leu	Met	Phe	Gly	Phe	Thr	Leu	Arg	Thr	Asn
		275					280					285			
Phe	Asn	Asp	Met	Arg	Pro	His	Tyr	Asn	Asp	Asn	Pro	Arg	Pro	Lys	Tyr
		290				295					300				
Gln	Pro	Glu	Pro	Gln	Asp	Ala	Ile	Ile	Gln	His	Ser	Val	Val	Ala	Asn
305					310					315					320
Gln	Leu	Thr	Leu	Leu	Lys	Tyr	Asn	Ala	Gly	Leu	Ala	Asp	Pro	Lys	Ile
				325					330						335
Gln	Thr	Lys	Gly	Asp	Thr	Leu	Tyr	Val	Thr	Gly	Glu	Gln	Val	Lys	Tyr
			340					345					350		
Arg	Asp	Ser	Arg	Glu	Gly	Ile	Glu	Arg	Ala	Asn	Arg	Ile	Val	Met	Asn
		355					360					365			
Asp	Leu	Pro	Glu	Gly	Ile	Arg	Thr	Ile	Arg	Val	Thr	Glu	Asn	Arg	Leu
		370				375					380				
Asn	Leu	Pro	Gln	Val	Thr	Thr	Glu	Thr	Asp	Val	Ala	Ser	Leu	Lys	Arg
385					390					395					400
His	Leu	Glu	Gly	Glu	Pro	Leu	Gly	His	Glu	Thr	Glu	Leu	Val	Gln	Lys
				405					410						415
Arg	Val	Glu	Pro	Val	Val	Pro	Glu	Thr	Thr	Glu	Gln	Gly	Trp	Tyr	Ile
			420					425					430		
Asp	Lys	Ser	Arg	Phe	Asp	Phe	His	Ile	Asp	Pro	Val	Leu	Asn	Gln	Ser
		435					440					445			
Val	Gly	Gly	Pro	Glu	Asn	Phe	Tyr	Met	Tyr	Gln	Leu	Gly	Ala	Met	Ala
						455					460				
Thr	Ala	Asp	Leu	Trp	Val	Thr	Asp	His	Leu	Leu	Thr	Thr	Gly	Ser	Leu
465					470					475					480
Phe	Gly	Asn	Ile	Thr	Asn	Asn	Tyr	Asp	Lys	Phe	Lys	Tyr	Thr	Asn	Pro
				485					490					495	
Pro	Asn	Asp	Ser	Lys	Leu	Pro	Arg	Val	Arg	Thr	Arg	Val	Arg	Glu	Tyr
			500					505					510		
Val	Gln	Asn	Asp	Ile	Tyr	Val	Asn	Asn	Leu	Gln	Ala	Asn	Tyr	Phe	Gln
		515					520					525			
Tyr	Phe	Gly	Asn	Gly	Phe	Tyr	Gly	Gln	Val	Tyr	Gly	Gly	Tyr	Leu	Glu
						535					540				
Thr	Met	Phe	Gly	Gly	Ala	Gly	Ala	Glu	Val	Leu	Tyr	Arg	Pro	Val	Asp
545					550					555					560
Ser	Asn	Trp	Ala	Phe	Gly	Val	Asp	Ala	Asn	Tyr	Val	Lys	Gln	Arg	Asp
				565					570					575	
Trp	Arg	Ser	Ala	Gln	Asp	Met	Met	Lys	Phe	Thr	Asp	Tyr	Ser	Val	Lys
			580					585					590		
Thr	Gly	His	Leu	Thr	Ala	Tyr	Trp	Thr	Pro	Ser	Phe	Ala	Gln	Asp	Val
		595					600					605			
Leu	Val	Lys	Ala	Ser	Val	Gly	Gln	Tyr	Leu	Ala	Gly	Asp	Lys	Gly	Gly
		610				615					620				
Thr	Leu	Asp	Ile	Ser	Lys	His	Phe	Asp	Ser	Gly	Val	Val	Val	Gly	Gly

625 630 635 640
 Tyr Ala Thr Ile Thr Asn Val Ser Pro Asp Glu Tyr Gly Glu Gly Asp
 645 650 655
 Phe Thr Lys Gly Val Tyr Val Ser Ile Pro Leu Asp Leu Phe Ser Ser
 660 665 670
 Gly Pro Thr Arg Ser Arg Ala Val Gly Trp Thr Pro Leu Thr Arg
 675 680 685
 Asp Gly Gly Gln Gln Leu Gly Arg Lys Phe Gln Leu Tyr Asp Met Thr
 690 695 700
 Ser Asp Lys Asn Ile Asn Phe Arg
 705 710

<210> 9524

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 9524

Ile Pro Val Thr Phe Leu Arg Tyr Thr Gly Thr Ser Pro Trp Arg Met
 1 5 10 15
 Arg Cys Cys Met Thr Ser Leu Thr Arg Pro Arg Val Glu Phe Ile Ser
 20 25 30
 Thr Ile Leu Gln Thr Val Leu Asn Leu Gly Leu Leu Ser Leu Gly Leu
 35 40 45
 Ile Leu Val Val Phe Leu Gly Lys Glu Thr Val His Leu Ala Asp Val
 50 55 60
 Leu Phe Ala Pro Glu Gln Thr Ser Lys Tyr Ala Leu Val Glu Gly Leu
 65 70 75 80
 Val Val Tyr Phe Leu Tyr Phe Glu Phe Ile Ala Leu Ile Val Lys Tyr
 85 90 95
 Phe Gln Ser Gly Phe His Phe Pro Leu Arg Tyr Phe Val Tyr Ile Gly
 100 105 110
 Ile Thr Ala Ile Val Arg Leu Ile Val Asp His Lys Ser Pro Leu
 115 120 125
 Asp Val Leu Ile Tyr Ser Ala Ala Ile Leu Leu Leu Val Ile Thr Leu
 130 135 140
 Trp Leu Cys Asn Ser Lys Arg Leu Lys Arg Glu
 145 150 155

<210> 9525

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 9525

Ile Leu Phe Val Arg Pro His Phe Val Asn Leu Arg Tyr Asn Ala Phe
 1 5 10 15
 Thr Leu Cys Ile Gly Glu Ser Gly Met Ser His Pro Ala Leu Thr Gln
 20 25 30
 Leu Arg Ala Leu Arg Tyr Phe Asp His Ile Pro Ala Leu Asp Pro Glu
 35 40 45
 Gln Leu Asp Trp Leu Leu Leu Glu Asp Ser Met Thr Lys Arg Phe Glu
 50 55 60
 Gln Gln Gly Lys Thr Val Thr Val Thr Met Ile Gln Glu Gly Phe Val
 65 70 75 80
 Ser Pro Ala Glu Ile Ala Ser Glu Leu Pro Leu Leu Pro Gln Glu Glu
 85 90 95
 Arg Tyr Trp Leu Arg Glu Ile Leu Leu Cys Ala Asp Gly Glu Pro Trp
 100 105 110
 Leu Ala Gly Arg Thr Val Val Pro Glu Ser Thr Leu Ser Gly Pro Glu
 115 120 125

Leu Ala Leu Gln Arg Leu Gly Lys Thr Pro Leu Gly Arg Tyr Leu Phe
 130 135 140
 Thr Ser Ser Glu Leu Thr Arg Asp Phe Ile Glu Ile Gly Cys Asp Ala
 145 150 155 160
 Asp Leu Trp Gly Arg Arg Ser Arg Leu Arg Leu Ser Gly Lys Pro Leu
 165 170 175
 Ile Leu Thr Glu Leu Phe Leu Pro Ala Ser Pro Leu Tyr
 180 185 190

<210> 9526

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 9526

Glu Gly Glu Lys Met Glu Trp Ser Leu Thr Gln Asn Lys Leu Leu Ala
 1 5 10 15
 Tyr His Arg Leu Met Arg Thr Asp Lys Pro Ile Gly Ala Leu Leu Leu
 20 25 30
 Leu Trp Pro Thr Leu Trp Ala Leu Trp Val Ala Thr Pro Gly Val Pro
 35 40 45
 Pro Leu Trp Ile Leu Ala Val Phe Val Ala Gly Val Trp Leu Met Arg
 50 55 60
 Ala Ala Gly Cys Val Val Asn Asp Tyr Ala Asp Arg Lys Phe Asp Gly
 65 70 75 80
 His Val Lys Arg Thr Ala Asn Arg Pro Leu Pro Ser Gly Gln Val Thr
 85 90 95
 Gly Lys Glu Ala Arg Ile Leu Phe Val Val Leu Val Leu Leu Ser Phe
 100 105 110
 Met Leu Val Leu Thr Leu Asn Thr Met Thr Ile Leu Leu Ser Val Ala
 115 120 125
 Ala Leu Ala Leu Ala Trp Val Tyr Pro Phe Met Lys Arg Tyr Thr His
 130 135 140
 Leu Pro Gln Val Val Leu Gly Ala Ala Phe Gly Trp Ser Ile Pro Met
 145 150 155 160
 Ala Phe Ala Ala Val Ser Glu Ser Val Pro Leu Ser Cys Trp Leu Met
 165 170 175
 Phe Leu Ala Asn Ile Leu Trp Ala Val Ala Tyr Asp Thr Gln Tyr Ala
 180 185 190
 Met Val Asp Arg Asp Asp Asp Leu Lys Ile Gly Ile Lys Ser Thr Ala
 195 200 205
 Ile Leu Phe Gly Arg His Asp Lys Leu Ile Ile Gly Ile Leu Gln Val
 210 215 220
 Ala Val Leu Ala Leu Met Val Ala Ile Gly Arg Leu Asn Gly Leu Asn
 225 230 235 240
 Trp Glu Phe Tyr Trp Ser Val Leu Val Ala Gly Leu Leu Phe Ala Tyr
 245 250 255
 Gln Gln Lys Leu Ile Ala Lys Arg Glu Arg Glu Ala Cys Phe Lys Ala
 260 265 270
 Phe Leu Asn Asn Asn Tyr Val Gly Leu Val Leu Phe Leu Gly Leu Ala
 275 280 285
 Met Ser Tyr Trp Ser
 290

<210> 9527

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 9527

Lys Val Leu Leu Met Ala Asn Asn Thr Thr Gly Leu Thr Arg Ile Ile

1		5		10		15
Lys	Ala	Ala	Gly	Tyr	Ser	Trp
		20				
Glu	Ala	Ala	Phe	Arg	Gln	Glu
		35				
Ile	Ala	Cys	Phe	Leu	Asp	Val
		50				
Gly	Ser	Val	Phe	Leu	Val	Met
		65				
Glu	Ala	Val	Val	Asp	Arg	Ile
Arg	Ala	Lys	Asp	Met	Gly	Ser
Ala	Ala	Ile	Thr	Trp	Val	Thr
		115				

<210> 9528

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 9528

Leu	Tyr	Ile	His	Pro	Gly	Gly	Gly	Met	Lys	Ala	Leu	Thr	Thr	Arg	Gln
1				5					10					15	
Gln	Glu	Val	Phe	Asp	Leu	Ile	Arg	Asp	His	Ile	Gly	Gln	Thr	Gly	Met
			20					25						30	
Pro	Pro	Thr	Arg	Ala	Glu	Ile	Ala	Gln	Arg	Leu	Gly	Phe	Arg	Ser	Pro
		35					40					45			
Asn	Ala	Ala	Glu	Glu	His	Leu	Lys	Ala	Leu	Ala	Arg	Lys	Gly	Val	Ile
		50				55					60				
Glu	Ile	Val	Ser	Gly	Ala	Ser	Arg	Gly	Ile	Arg	Leu	Leu	Val	Glu	Glu
					70					75				80	
Glu	Ser	Gly	Ile	Pro	Leu	Val	Gly	Arg	Val	Ala	Ala	Gly	Glu	Pro	Leu
				85				90						95	
Leu	Ala	Gln	Gln	His	Ile	Glu	Gly	His	Tyr	Gln	Val	Asp	Pro	Gly	Met
				100				105						110	
Phe	Lys	Pro	Ser	Ala	Asp	Phe	Leu	Arg	Val	Ser	Gly	Met	Ser	Met	
		115					120				125				
Lys	Asp	Ile	Gly	Ile	Leu	Asp	Gly	Asp	Leu	Leu	Ala	Val	His	Lys	Thr
		130				135					140				
Gln	Asp	Val	Arg	Asn	Gly	Gln	Val	Val	Val	Ala	Arg	Ile	Asp	Asp	Glu
					150					155				160	
Val	Thr	Val	Lys	Arg	Leu	Lys	Lys	Gln	Gly	Asn	Thr	Val	Gln	Leu	Leu
				165				170						175	
Pro	Glu	Asn	Asn	Glu	Phe	Ser	Pro	Ile	Val	Val	Asp	Leu	Arg	Glu	Gln
			180					185					190		
Ser	Phe	Ser	Ile	Glu	Gly	Leu	Ala	Val	Gly	Val	Ile	Arg	Asn	Gly	Glu
		195					200					205			
Trp	Leu														
	210														

<210> 9529

<211> 460

<212> PRT

<213> Enterobacter cloacae

<400> 9529

Phe	Leu	Tyr	Ser	Leu	Ala	Cys	Phe	Leu	Ile	Pro	Val	Ile	Ser	Met	Ala
1				5				10					15		
Leu	Leu	Thr	Ser	Ala	Asp	Lys	Ala	Leu	Trp	Arg	Leu	Ala	Leu	Pro	Met
				20				25					30		

Ile Phe Ser Asn Ile Thr Val Pro Leu Leu Gly Leu Val Asp Thr Ala
 35 40 45
 Val Ile Gly His Leu Asp Ser Pro Ile Tyr Leu Gly Gly Val Ala Ile
 50 55 60
 Gly Ala Thr Ala Thr Ser Phe Leu Ile Met Leu Leu Leu Phe Leu Arg
 65 70 75 80
 Met Ser Thr Thr Gly Leu Thr Ala Gln Ala Tyr Gly Ala Lys Asp Pro
 85 90 95
 Leu Arg Leu Ala Arg Ala Leu Val Gln Pro Leu Ile Leu Ala Phe Gly
 100 105 110
 Ala Gly Ala Leu Ile Val Leu Leu Arg Thr Pro Leu Ile Asp Phe Ala
 115 120 125
 Leu His Ile Val Gly Gly Ser Asp Ala Val Leu Glu Gln Ala Arg Arg
 130 135 140
 Phe Leu Glu Ile Arg Trp Leu Ser Ala Pro Ala Ser Leu Ala Asn Leu
 145 150 155 160
 Val Leu Leu Gly Trp Leu Leu Gly Val Gln Tyr Ala Arg Ala Pro Val
 165 170 175
 Ile Leu Leu Val Val Gly Asn Leu Leu Asn Ile Met Leu Asp Leu Trp
 180 185 190
 Leu Val Met Gly Leu His Met Asn Val Arg Gly Ala Ala Leu Ala Thr
 195 200 205
 Ala Ile Ala Glu Tyr Gly Thr Leu Leu Ile Gly Leu Gly Met Val Trp
 210 215 220
 Arg Val Leu Ala Met Arg Gly Ile Thr Leu Asp Leu Leu Lys Ser Ala
 225 230 235 240
 Trp Arg Gly Asn Ile Arg Lys Leu Leu Ala Leu Asn Arg Asp Ile Met
 245 250 255
 Leu Arg Ser Leu Leu Leu Gln Leu Cys Phe Gly Ala Leu Thr Val Phe
 260 265 270
 Gly Ala Arg Leu Gly Pro Glu Ile Val Ala Val Asn Ala Val Leu Met
 275 280 285
 Thr Leu Leu Thr Phe Thr Ala Tyr Ala Leu Asp Gly Phe Ala Tyr Ala
 290 295 300
 Val Glu Ala His Ser Gly Gln Ala Tyr Gly Ala Arg Glu Ser Gly Gln
 305 310 315 320
 Leu Arg Glu Val Trp Arg Ala Ala Cys Arg Gln Ala Gly Leu Val Ala
 325 330 335
 Leu Ala Phe Ala Leu Val Tyr Ala Cys Phe Gly Gly His Ile Val Ala
 340 345 350
 Leu Leu Thr Ser Leu Pro Ala Leu Arg Glu Leu Ala Asp Arg Tyr Ile
 355 360 365
 Leu Trp Gln Val Val Leu Pro Val Val Gly Val Trp Cys Tyr Leu Leu
 370 375 380
 Asp Gly Met Phe Ile Gly Ala Thr Arg Gly Ala Glu Met Arg Asn Ser
 385 390 395 400
 Met Ala Val Ala Ala Gly Phe Gly Leu Thr Leu Leu Thr Leu Pro
 405 410 415
 Tyr Leu Gly Asn His Gly Leu Trp Leu Ala Leu Ala Val Phe Leu Ser
 420 425 430
 Leu Arg Gly Leu Ser Leu Ala Val Ile Trp His Arg His Trp Arg Asn
 435 440 445
 Asn Thr Trp Phe Pro Ala Pro His Asp Ile Ser
 450 455 460

<210> 9530

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 9530

Asn Phe Ala Met Ser Ser Glu Phe Gln Thr Val Phe Pro Ala His Arg
 1 5 10 15
 Phe Ser Ile Ala Pro Met Leu Asp Trp Thr Asp Arg His Cys Arg Tyr
 20 25 30
 Phe Leu Arg Gln Leu Ser Arg His Thr Leu Leu Tyr Thr Glu Met Val
 35 40 45
 Thr Thr Gly Ala Ile Ile His Gly Lys Gly Asp Tyr Leu Ala Tyr Ser
 50 55 60
 Glu Glu Glu His Pro Val Ala Leu Gln Leu Gly Gly Ser Asp Pro Ala
 65 70 75 80
 Ala Leu Ala Gln Cys Ala Lys Leu Ala Glu Glu Arg Gly Tyr Asp Glu
 85 90 95
 Ile Asn Leu Asn Val Gly Cys Pro Ser Asp Arg Val Gln Asn Gly Met
 100 105 110
 Phe Gly Ala Cys Leu Met Gly Asn Ala His Leu Val Ala Asp Cys Ile
 115 120 125
 Lys Ala Met Arg Asp Val Val Ser Ile Pro Val Thr Val Lys Thr Arg
 130 135 140
 Ile Gly Ile Asp Asp Gln Asp Ser Tyr Glu Phe Leu Cys Asp Phe Ile
 145 150 155 160
 Asn Thr Val Ser Gly Lys Gly Glu Cys Glu Met Phe Ile Ile His Ala
 165 170 175
 Arg Lys Ala Trp Leu Ser Gly Leu Ser Pro Lys Glu Asn Arg Glu Ile
 180 185 190
 Pro Pro Leu Asp Tyr Pro Arg Val Tyr Gln Leu Lys Arg Asp Phe Pro
 195 200 205
 His Leu Thr Met Ser Ile Asn Gly Gly Ile Lys Ser Leu Asp Glu Ala
 210 215 220
 Lys Ala His Leu Glu His Met Asp Gly Val Met Val Gly Arg Glu Ala
 225 230 235 240
 Tyr Gln Asn Pro Gly Ile Leu Ala Thr Val Asp Arg Glu Ile Phe Gly
 245 250 255
 Val Glu Gly Ala Asp Thr Asp Pro Val Ala Val Val Arg Ala Met Tyr
 260 265 270
 Pro Tyr Ile Glu Arg Glu Leu Ser His Gly Thr Tyr Leu Gly His Ile
 275 280 285
 Thr Arg His Met Leu Gly Leu Phe Gln Gly Ile Pro Gly Ala Arg Gln
 290 295 300
 Trp Arg Arg Tyr Leu Ser Glu Asn Ala His Lys Ala Gly Ala Asp Ile
 305 310 315 320
 Glu Val Leu Glu His Ala Leu Arg Leu Val Ala Asp Lys Arg 335
 325 330

<210> 9531

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 9531

Gly Ile Gln Met Gln Ala Ala Thr Val Val Ile Asn Arg Arg Ala Leu
 1 5 10 15
 Arg His Asn Leu Gln Arg Leu Arg Glu Leu Ala Pro Ala Ser Lys Leu
 20 25 30
 Val Ala Val Val Lys Ala Asn Ala Tyr Gly His Gly Leu Leu Glu Thr
 35 40 45
 Ala Arg Thr Leu Pro Asp Ala Asp Ala Phe Gly Val Ala Arg Leu Glu
 50 55 60
 Glu Ala Leu Arg Leu Arg Ala Gly Gly Ile Thr Gln Pro Ile Leu Leu
 65 70 75 80
 Leu Glu Gly Phe Phe Glu Ala Ser Asp Leu Pro Thr Ile Ala Asp Gln
 85 90 95

His Leu His Thr Ala Val His Asn Glu Glu Gln Leu Ala Ala Leu Glu
 100 105 110
 Thr Ala Glu Leu Ser Glu Pro Val Thr Val Trp Met Lys Leu Asp Thr
 115 120 125
 Gly Met His Arg Leu Gly Val Arg Pro Glu Ser Ala Glu Ala Phe Tyr
 130 135 140
 Gln Arg Leu Cys Gln Cys Lys Asn Val Arg Gln Pro Val Asn Ile Val
 145 150 155 160
 Ser His Phe Ala Arg Ala Asp Glu Pro Glu Cys Gly Ala Thr Glu Gln
 165 170 175
 Gln Leu Asp Ile Phe Asn Thr Phe Cys Glu Gly Lys Pro Gly Met Arg
 180 185 190
 Ser Ile Ala Ala Ser Gly Gly Ile Leu Leu Trp Pro Gln Ser His Phe
 195 200 205
 Asp Trp Ala Arg Pro Gly Ile Ile Leu Tyr Gly Val Ser Pro Leu Glu
 210 215 220
 Asn Lys Pro Trp Gly Pro Asp Phe Gly Phe Lys Pro Val Met Ser Leu
 225 230 235 240
 Val Ser Lys Leu Ile Ala Val Arg Glu His Lys Ala Gly Glu Pro Val
 245 250 255
 Gly Tyr Gly Gly Thr Trp Ile Ser Glu Arg Asp Thr Arg Leu Gly Val
 260 265 270
 Val Ala Met Gly Tyr Gly Asp Gly Tyr Pro Arg Ala Ala Pro Thr Gly
 275 280 285
 Thr Pro Val Leu Val Asn Gly Arg Glu Val Lys Ile Val Gly Arg Val
 290 295 300
 Ala Met Asp Met Ile Cys Val Asp Leu Gly Pro Asp Ala Gln Asp Lys
 305 310 315 320
 Ala Gly Asp Asp Ala Val Met Trp Gly Glu Gly Leu Pro Val Glu Arg
 325 330 335
 Ile Ala Glu Ile Thr Lys Val Ser Ala Tyr Glu Leu Ile Thr Arg Leu
 340 345 350
 Thr Ser Arg Val Ala Met Lys Tyr Val Asp
 355 360

<210> 9532

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 9532

Lys Asp Ser Pro Phe Ile Met Glu Gln His Met Trp Tyr Gln Gln Thr
 1 5 10 15
 Leu Thr Leu Ser Ala Lys Pro Arg Gly Phe His Leu Val Thr Asp Glu
 20 25 30
 Val Ile Gly Gln Ile Arg Asp Leu Ser Arg Val Lys Thr Gly Leu Leu
 35 40 45
 His Leu Leu Leu Gln His Thr Ser Ala Ser Leu Thr Leu Asn Glu Asn
 50 55 60
 Cys Asp Pro Thr Val Arg Ser Asp Met Glu Arg His Phe Leu Lys Thr
 65 70 75 80
 Val Pro Asp Asn Ala Pro Tyr Glu His Asp Tyr Glu Gly Ala Asp Asp
 85 90 95
 Met Pro Ser His Ile Lys Ser Ser Leu Leu Gly Val Ser Leu Met Leu
 100 105 110
 Pro Val His Asn Gly Arg Leu Gln Leu Gly Thr Trp Gln Gly Ile Trp
 115 120 125
 Leu Gly Glu His Arg Ile His Gly Gly Ser Arg Lys Ile Ile Ala Thr
 130 135 140
 Leu Gln Gly Glu
 145

<210> 9533
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<400> 9533
 Arg Arg Cys Pro Ser Ala Tyr Lys Val Ser Lys Ala Ser Glu Asp Leu
 1 5 10 15
 Pro Asp Pro Glu Ser Pro Val Thr Thr Met Ser Leu Ser Arg Gly Ile
 20 25 30
 Met Arg Leu Ile Phe Leu Arg Leu Trp Val Arg Ala Pro Arg Thr Ser
 35 40 45
 Ile Leu Ser Ile His Leu Ser Arg Leu Glu His Gly Leu Pro Asp Leu
 50 55 60
 Phe Glu Gly Gln Thr Ala Val Arg Asn Gly
 65 70 75

<210> 9534
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<400> 9534
 Arg Gly Phe Met Glu Lys Arg Leu Pro Arg Ile Lys Ala Leu Leu Thr
 1 5 10 15
 Pro Gly Glu Val Ala Lys Arg Ser Gly Val Ala Val Ser Ala Leu His
 20 25 30
 Phe Tyr Glu Ser Lys Gly Leu Ile Lys Ser Ile Arg Asn Ala Gly Asn
 35 40 45
 Gln Arg Arg Tyr Thr Arg Asp Val Leu Arg Tyr Val Ala Ile Ile Lys
 50 55 60
 Ile Ala Gln Arg Ile Gly Ile Pro Leu Ala Thr Ile Gly Asp Ala Phe
 65 70 75 80
 Gly Val Leu Pro Glu Gly His Ser Leu Ser Ala Lys Glu Trp Lys Gln
 85 90 95
 Leu Ser Ser Gln Trp Arg Glu Glu Leu Asp Arg Arg Ile His Thr Leu
 100 105 110
 Val Ala Leu Arg Asp Glu Leu Asp Gly Cys Ile Gly Cys Gly Cys Leu
 115 120 125
 Ser Arg Ser Asp Cys Pro Leu Arg Asn Pro Gly Asp Arg Leu Gly Glu
 130 135 140
 Gln Gly Thr Gly Ala Arg Leu Leu Glu Glu Asp
 145 150 155

<210> 9535
 <211> 598
 <212> PRT
 <213> Enterobacter cloacae

<400> 9535
 Leu Phe Met Arg Lys Arg Val Ala Lys Ala Ala Arg Phe Tyr Phe Gln
 1 5 10 15
 Asp Ser Ser Cys Cys Leu Leu Arg Tyr Ser Gly Glu Asp Arg Ile Arg
 20 25 30
 Gly Thr Thr Pro Gln Val Trp Leu Ile Arg Asn Thr Ala Asn Arg Glu
 35 40 45
 Arg Met Glu Ile Phe Phe Thr Ile Leu Ile Met Thr Leu Val Val Ser
 50 55 60
 Leu Ser Gly Val Val Thr Arg Val Leu Pro Phe Gln Val Pro Leu Pro
 65 70 75 80

Leu	Met	Gln	Ile	Ala 85	Ile	Gly	Ala	Leu	Leu	Ala	Trp	Pro	Thr	Phe	Gly
Leu	His	Val	Glu	Phe	Asp	Pro	Glu	Leu	Phe	Leu	Val	Leu	Phe	Ile	Pro
Pro	Leu	Leu	Phe	Ala	Asp	Gly	Trp	Lys	Thr	Pro	Thr	Arg	Glu	Phe	Leu
Glu	His	Gly	Arg	Glu	Ile	Phe	Gly	Leu	Ala	Leu	Ala	Leu	Val	Val	Val
Thr	Val	Val	Gly	Ile	Gly	Phe	Leu	Ile	Tyr	Trp	Ala	Val	Pro	Gly	Ile
145	Pro	Leu	Ile	Pro	Ala	Phe	Ala	Leu	Ala	Ala	Val	Leu	Ser	Pro	Thr
Pro	Leu	Ile	Pro	Ala	Phe	Ala	Leu	Ala	Ala	Val	Leu	Ser	Pro	Thr	Asp
Ala	Val	Ala	Leu	Ser	Gly	Ile	Val	Gly	Glu	Gly	Arg	Ile	Pro	Lys	Lys
Ile	Met	Gly	Ile	Leu	Gln	Gly	Glu	Ala	Leu	Met	Asn	Asp	Ala	Ser	Gly
Leu	Val	Ala	Leu	Lys	Phe	Ala	Val	Ala	Val	Ala	Met	Gly	Thr	Met	Val
Phe	Thr	Val	Gly	Gly	Ala	Thr	Leu	Glu	Phe	Phe	Lys	Val	Ala	Ile	Gly
225	Gly	Ile	Leu	Ala	Gly	Phe	Val	Val	Ser	Trp	Leu	Tyr	Gly	Arg	Ser
Gly	Phe	Leu	Ser	Arg	Trp	Gly	Gly	Asp	Glu	Pro	Ala	Thr	Gln	Ile	Val
Arg	Phe	Leu	Ser	Arg	Trp	Gly	Gly	Asp	Glu	Pro	Ala	Thr	Gln	Ile	Val
Leu	Leu	Phe	Leu	Leu	Pro	Phe	Ala	Ser	Tyr	Leu	Ile	Ala	Glu	His	Ile
Gly	Val	Ser	Gly	Ile	Leu	Ala	Ala	Val	Ala	Ala	Gly	Met	Thr	Ile	Thr
Arg	Ser	Gly	Val	Met	Arg	Arg	Ala	Pro	Leu	Ala	Met	Arg	Leu	Arg	Ala
305	Asn	Ser	Thr	Trp	Ala	Met	Leu	Glu	Phe	Val	Phe	Asn	Gly	Met	Val
Asn	Ser	Thr	Trp	Ala	Met	Leu	Glu	Phe	Val	Phe	Asn	Gly	Met	Val	Phe
Leu	Leu	Leu	Gly	Leu	Gln	Leu	Pro	Gly	Ile	Met	Glu	Ser	Ser	Leu	Ile
Ala	Ala	Glu	Ala	Asp	Pro	Asn	Val	Glu	Val	Trp	Met	Leu	Phe	Thr	Asp
Ile	Val	Leu	Ile	Tyr	Leu	Ala	Leu	Met	Leu	Val	Arg	Phe	Gly	Trp	Leu
Trp	Thr	Met	Lys	Lys	Phe	Ser	Val	Arg	Phe	Leu	Thr	Lys	Lys	Pro	Met
385	Glu	Phe	Gly	Ser	Trp	Thr	Thr	Arg	Glu	Leu	Leu	Ile	Ala	Ser	Phe
Glu	Val	Arg	Gly	Ala	Ile	Thr	Leu	Ala	Gly	Val	Leu	Ser	Ile	Pro	Leu
Gly	Val	Arg	Gly	Ala	Ile	Thr	Leu	Ala	Gly	Val	Leu	Ser	Ile	Pro	Leu
Leu	Leu	Pro	Thr	Gly	Asp	Val	Phe	Pro	Ala	Arg	Tyr	Glu	Leu	Val	Phe
Leu	Ala	Ala	Gly	Val	Ile	Leu	Phe	Ser	Leu	Phe	Val	Gly	Val	Ile	Met
Leu	Pro	Ile	Leu	Leu	Gln	His	Ile	Asp	Ala	Gly	Asp	Ser	Ser	Gln	Gln
465	His	Lys	Glu	Glu	Arg	Ile	Ala	Arg	Ala	Ala	Thr	Ala	Glu	Val	Ile
His	Lys	Glu	Glu	Arg	Ile	Ala	Arg	Ala	Ala	Thr	Ala	Glu	Val	Ala	Ile
Val	Ala	Ile	Glu	Lys	Met	Glu	Glu	Arg	Leu	Ala	Ala	Asp	Ala	Glu	Glu
Val	Ala	Ile	Glu	Lys	Met	Glu	Glu	Arg	Leu	Ala	Ala	Asp	Ala	Glu	Glu
Asn	Ile	Asp	Asn	Gln	Leu	Leu	Lys	Glu	Val	Ser	Ser	Arg	Val	Ile	Gly
Asn	Leu	Arg	Arg	Arg	Ala	Asp	Gly	Arg	Asn	Asp	Val	Glu	Ser	Ser	Leu
Gln	Glu	Glu	Asn	Leu	Glu	Arg	Arg	Phe	Arg	Leu	Ala	Ala	Leu	Arg	Ser
545	Glu	Arg	Ala	Glu	Leu	Tyr	His	Leu	Arg	Ala	Thr	Arg	Gln	Ile	Ser
Glu	Arg	Ala	Glu	Leu	Tyr	His	Leu	Arg	Ala	Thr	Arg	Gln	Ile	Ser	Asn

5130

565 570 575
 Glu Thr Leu Gln Lys Leu Leu His Asp Leu Asp Leu Leu Glu Ala Leu
 580 585 590
 Leu Ile Glu Asn Gln
 595

<210> 9536
 <211> 252
 <212> PRT
 <213> Enterobacter cloacae

<400> 9536
 Trp Cys Trp Ala Pro Pro Gly Trp Trp Ile Arg Cys Ile Ala Leu
 1 5 10 15
 Lys Ser Ala Gly Arg Ser Met Thr Asn Phe Gln Ile Ser Leu Leu Cys
 20 25 30
 Leu Ile Ala Thr Val Val Ile Tyr Phe Ala Asn Lys Arg Leu Tyr Arg
 35 40 45
 Arg Phe Arg Ala Leu Pro Leu Met Pro Leu Val Phe Thr Pro Ile Leu
 50 55 60
 Leu Val Leu Met Leu Val Phe Gly His Ile Ser Trp Gln Asn Tyr Ile
 65 70 75 80
 Gly Glu Ser His Trp Leu Leu Trp Leu Leu Gly Pro Ala Thr Ile Ala
 85 90 95
 Phe Ala Val Pro Val Tyr Asp Asn Leu Ala Ile Ile Arg Arg His Trp
 100 105 110
 Met Ser Leu Ser Ala Gly Val Val Thr Ala Thr Val Val Ala Val Cys
 115 120 125
 Ser Ser Val Trp Leu Ala Arg Leu Phe Thr Leu Ser Asp Glu Ile Gln
 130 135 140
 Arg Ser Leu Ala Val Arg Ser Val Thr Thr Pro Phe Ala Leu Ala Ala
 145 150 155 160
 Ala Lys Pro Leu Gly Gly Gln Pro Asp Leu Val Ala Leu Phe Val Val
 165 170 175
 Val Thr Gly Val Phe Gly Met Ala Val Gly Asp Met Leu Phe Leu Arg
 180 185 190
 Leu Ser Ile Arg Glu Gly Met Ala Lys Gly Ala Gly Phe Gly Ala Ala
 195 200 205
 Ser His Gly Ala Gly Thr Ala Arg Ser Tyr Glu Leu Gly Gln Gln Glu
 210 215 220
 Gly Val Val Ala Ser Leu Val Met Met Leu Ser Gly Val Thr Met Val
 225 230 235 240
 Leu Ile Ala Pro Leu Val Ala Trp Met Met Phe
 245 250

<210> 9537
 <211> 420
 <212> PRT
 <213> Enterobacter cloacae

<400> 9537
 Ile Thr Asp Asn Asp Thr Phe Cys Ser Glu Met Pro Cys Ser Leu Arg
 1 5 10 15
 Leu Ala Gln His Ala Val Gln Met Ile Leu Ile Arg Arg Val Lys Lys
 20 25 30
 Ser His Lys Pro Thr Gln His Asn Ser Tyr Pro Phe Ser Met Ser Pro
 35 40 45
 Tyr Ser Cys Ser Phe Asp Gly Ala Glu Ile Ser Leu Arg Lys Ser Val
 50 55 60
 Ser Met Lys Asn Leu Lys Val Ser Leu Ala Trp Gln Ile Leu Leu Ala
 65 70 75 80

Leu Val Leu Gly Ile Leu Leu Gly Ser Tyr Leu His Tyr His Ser Asp
 85 90 95
 Ser Arg Glu Trp Leu Ile Ala Asn Leu Leu Ser Pro Ala Gly Asp Ile
 100 105 110
 Phe Ile His Leu Ile Lys Met Ile Val Val Pro Ile Val Ile Ser Thr
 115 120 125
 Leu Val Val Gly Ile Ala Gly Val Gly Asp Ala Lys Gln Leu Gly Arg
 130 135 140
 Ile Gly Val Lys Thr Ile Leu Tyr Phe Glu Val Ile Thr Thr Val Ala
 145 150 155 160
 Ile Val Leu Gly Ile Thr Leu Ala Asn Val Phe Gln Pro Gly Ala Gly
 165 170 175
 Ile Asp Met Ser Gln Leu Ala Thr Val Asp Ile Ser Lys Tyr Gln Ser
 180 185 190
 Thr Thr Ala Asp Val Gln Ser His Ser His Gly Leu Met Gly Thr Ile
 195 200 205
 Leu Ser Leu Val Pro Thr Asn Ile Ile Ala Ser Met Ala Lys Gly Glu
 210 215 220
 Met Leu Pro Ile Ile Phe Phe Ser Val Leu Phe Gly Leu Gly Leu Ser
 225 230 235 240
 Ser Leu Pro Ala Thr His Arg Glu Pro Leu Val Thr Val Phe Arg Ser
 245 250 255
 Ile Ser Glu Thr Met Phe Lys Val Thr His Met Val Met Arg Tyr Ala
 260 265 270
 Pro Val Gly Val Phe Ala Leu Ile Ala Val Thr Val Ala Asn Phe Gly
 275 280 285
 Phe Ala Ser Leu Trp Pro Leu Ala Lys Leu Val Ile Leu Val His Phe
 290 295 300
 Ala Ile Leu Phe Phe Ala Leu Val Val Leu Gly Ile Val Ala Arg Leu
 305 310 315 320
 Cys Gly Leu Ser Ile Trp Ile Leu Ile Arg Ile Leu Lys Asp Glu Leu
 325 330 335
 Ile Leu Ala Tyr Ser Thr Ala Ser Ser Glu Ser Val Leu Pro Arg Ile
 340 345 350
 Ile Glu Lys Met Glu Ala Tyr Gly Ala Pro Ala Ser Ile Thr Ser Phe
 355 360 365
 Val Val Pro Thr Gly Tyr Ser Phe Asn Leu Asp Gly Ser Thr Leu Tyr
 370 375 380
 Gln Ser Ile Ala Ala Ile Phe Ile Ala Gln Leu Tyr Gly Ile Asp Leu
 385 390 395 400
 Ser Leu Trp Gln Glu Ile Val Leu Val Leu Thr Leu Met Val Thr Ser
 405 410 415
 Lys Gly Ile Ala
 420

<210> 9538

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 9538

Pro Leu Leu Gly Gly Arg Arg Gly Ala Asn Pro Pro Val Leu Thr Val
 1 5 10 15
 Ser Arg Cys Arg Phe Leu Pro Gly Glu Asp His Pro Asp Gln Gly Gly
 20 25 30
 Glu Ile Met Lys Met Phe Ile His Ile Ala Leu Leu Ala Ser Leu Ala
 35 40 45
 Ser Pro Leu Ala Trp Ser Ala Gly Thr Val Gln Val Tyr Thr Pro Asp
 50 55 60
 Ser Glu Lys Pro Lys Thr Leu Thr Asn Ala Arg His Leu Leu Asp Leu
 65 70 75 80

Val Gly Gln Pro Arg Leu Ala Lys Ser Trp Trp Thr Gly Ala Val Ile
 85 90 95
 Ser Glu Arg Gln Ala Thr Ile Val Ala Glu Gln Lys His Gln Ala Leu
 100 105 110
 Leu Ala Arg Leu Ser Gly Leu Ala Gln Gln Glu Asp Ala Asp Asp Ala
 115 120 125
 Ala Ala Ile Thr Ser Leu Arg Gln Gln Leu Gln Ala Val Lys Val Thr
 130 135 140
 Gly Arg Gln Lys Val Asn Leu Asp Pro Asp Glu Val Arg Val Ala Glu
 145 150 155 160
 Asn Gly Asn Pro Ser Leu Glu Gly Asp Tyr Thr Leu Trp Leu Pro Ala
 165 170 175
 Gln Pro Ser Thr Val Thr Val Met Gly Leu Leu Ser Ser Pro Gly Lys
 180 185 190
 Lys Pro Phe Thr Pro Gly Arg Asp Val Ala Ser Tyr Leu Asp Glu Gln
 195 200 205
 Ser Leu Leu Ser Gly Ala Asp Lys Ser Tyr Ala Trp Val Val Tyr Pro
 210 215 220
 Asp Gly His Thr Gln Lys Ala Pro Val Ala Tyr Trp Asn Lys Arg His
 225 230 235 240
 Ile Glu Pro Met Pro Gly Ser Ile Ile Phe Val Gly Phe Ala Asp His
 245 250 255
 Phe Trp Thr Lys Ala Tyr Asp Gly Leu Asn Ala Asp Ile Leu Arg Ser
 260 265 270
 Leu Ile Gln Arg Ile Pro Glu
 275 280

<210> 9539

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 9539

Lys Met Val Lys Tyr Ala Thr Pro Cys Asn Thr Leu Arg Gly Val Leu
 1 5 10 15
 Leu Ser Glu Gln Gln Leu Ile Phe Gly Met Ile Leu Val Thr Ile Ala
 20 25 30
 Ala Ser Phe Gly Asn Ser Trp Glu Ser Thr Met Leu Glu Leu Leu Phe
 35 40 45
 Val Ile Gly Phe Phe Ile Met Leu Met Val Thr Gly Val Ser Leu Leu
 50 55 60
 Gly Ile Leu Ala Ala Leu Val Val Ala Thr Val Val Met Phe Val Gly
 65 70 75 80
 Gly Leu Phe Ala Leu Thr Ile Lys Leu Leu Pro Trp Leu Leu Leu Ala
 85 90 95
 Ile Ala Val Val Trp Ala Ile Arg Ala Ile Lys Ser Pro Lys Leu Pro
 100 105 110
 Ser Tyr Gln Arg Asn Asn Arg Phe Arg Tyr
 115 120

<210> 9540

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 9540

Ser Gly Glu His Arg Val Phe Gln Lys Val Asp Ala Tyr Ala Gly Asp
 1 5 10 15
 Pro Ile Leu Ser Leu Met Glu Arg Phe Lys Glu Asp Pro Arg Ser Asp
 20 25 30
 Lys Val Asn Leu Ser Ile Gly Leu Tyr Tyr Asn Glu Asp Gly Ile Ile

```

      35              40              45
Pro  Gln  Leu  Lys  Ala  Val  Ala  Glu  Ala  Glu  Ala  Arg  Leu  Asn  Ala  Thr
50
Pro  His  Gly  Ala  Ser  Leu  Tyr  Leu  Pro  Met  Glu  Gly  Leu  Asn  Thr  Tyr
65
Arg  Asn  Thr  Ile  Ala  Pro  Leu  Leu  Phe  Gly  Ala  Asp  His  Ala  Val  Leu
80
      85              90              95
Ala  Gln  Lys  Arg  Val  Ala  Thr  Ile  Gln  Thr  Leu  Gly  Gly  Ser  Gly  Ala
100
Leu  Lys  Val  Gly  Ala  Asp  Phe  Leu  Lys  Lys  Tyr  Phe  Pro  Asp  Ser  Gly
115
Val  Trp  Val  Ser  Asp  Pro  Thr  Trp  Glu  Asn  His  Val  Ala  Ile  Phe  Glu
130
Gly  Ala  Gly  Phe  Lys  Val  Glu  Thr  Tyr  Pro  Trp  Phe  Asp  Ser  Glu  Thr
145
Asn  Gly  Val  Arg  Val  Asp  Ala  Leu  Leu  Glu  Lys  Leu  Asn  Thr  Leu  Pro
165
Glu  Arg  Ser  Ile  Val  Leu  Leu  His  Pro  Cys  Cys  His  Asn  Pro  Thr  Gly
180
Ala  Asp  Leu  Thr  Asn  Ala  Gln  Trp  Asp  Ala  Val  Ile  Glu  Ile  Leu  Lys
195
Ala  Arg  Asn  Leu  Ile  Pro  Phe  Leu  Asp  Ile  Ala  Tyr  Gln  Gly  Phe  Gly
210
Ala  Gly  Met  Glu  Glu  Asp  Ala  Tyr  Ala  Ile  Arg  Ala  Ile  Ala  Ser  Ala
225
Gly  Leu  Pro  Ala  Leu  Val  Ser  Asn  Ser  Phe  Ser  Lys  Ile  Phe  Ser  Leu
245
Tyr  Gly  Glu  Arg  Val  Gly  Gly  Leu  Ser  Val  Val  Cys  Glu  Asp  Ala  Glu
260
Ala  Ala  Gly  Arg  Val  Leu  Gly  Gln  Leu  Lys  Ala  Thr  Val  Arg  Arg  Ile
275
Tyr  Ser  Ser  Pro  Pro  Asn  Phe  Gly  Ala  Gln  Val  Val  Ala  Thr  Val  Leu
290
Gly  Asp  Glu  Arg  Leu  Lys  Ala  Thr  Trp  Leu  Ala  Glu  Val  Glu  Ala  Met
305
Arg  Lys  Arg  Ile  Leu  Ser  Met  Arg  Gln  Glu  Leu  Val  Asn  Val  Leu  Lys
325
Glu  Ala  Val  Pro  Gly  His  Asn  Phe  Asp  Tyr  Leu  Leu  Lys  Gln  Arg  Gly
340
Met  Phe  Ser  Tyr  Thr  Gly  Leu  Ser  Ala  Ala  Gln  Val  Asp  Arg  Leu  Arg
355
Glu  Glu  Phe  Gly  Val  Tyr  Leu  Ile  Ala  Ser  Gly  Arg  Met  Cys  Val  Ala
370
Gly  Leu  Asn  Ala  Ser  Asn  Val  Gln  Arg  Val  Ala  Gln  Ala  Phe  Ala  Ala
385
Val  Met
390
400

```

<210> 9541

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 9541

```

Glu  Thr  Tyr  Ser  Gly  Asp  Thr  Asn  Met  Ala  Ser  Arg  Gly  Val  Asn  Lys
1      5      10      15
Val  Ile  Leu  Val  Gly  Asn  Leu  Gly  Gln  Asp  Pro  Glu  Val  Arg  Tyr  Met
20      25      30
Pro  Ser  Gly  Gly  Ala  Val  Ala  Asn  Ile  Thr  Leu  Ala  Thr  Ser  Glu  Ser
35      40      45
Trp  Arg  Asp  Lys  Ala  Thr  Gly  Glu  Met  Lys  Glu  Gln  Thr  Glu  Trp  His

```

50						55					60					
Arg	Val	Val	Leu	Phe	Gly	Lys	Leu	Ala	Glu	Val	Ala	Gly	Glu	Tyr	Leu	
65					70					75					80	
Arg	Lys	Gly	Ser	Gln	Val	Tyr	Ile	Glu	Gly	Gln	Leu	Arg	Thr	Arg	Lys	
				85					90					95		
Trp	Thr	Asp	Gln	Ser	Gly	Gln	Glu	Lys	Tyr	Thr	Thr	Glu	Val	Val		
			100					105					110			
Asn	Val	Gly	Gly	Thr	Met	Gln	Met	Leu	Gly	Gly	Arg	Gln	Gly	Gly	Gly	
		115					120					125				
Ala	Pro	Ala	Gly	Gly	Gly	Gln	Gln	Gln	Gly	Gly	Trp	Gly	Gln	Pro	Gln	
	130					135					140					
Gln	Pro	Gln	Gly	Gly	Asn	Gln	Phe	Ser	Gly	Gly	Ala	Gln	Ser	Arg	Pro	
145					150					155					160	
Gln	Gln	Gln	Ser	Ala	Pro	Ala	Pro	Ser	Asn	Glu	Pro	Pro	Met	Asp	Phe	
				165					170					175		
Asp	Asp	Asp	Ile	Pro	Phe											
			180													

<210> 9542

<211> 492

<212> PRT

<213> Enterobacter cloacae

<400> 9542

Phe	Arg	Gly	Leu	Ile	Leu	Leu	Phe	Arg	Tyr	Glu	Leu	Leu	Arg	Leu	Leu	
1				5					10					15		
Ser	Arg	Leu	Met	Thr	Cys	Glu	Lys	Ile	Met	Lys	Glu	Gln	Arg	Arg	Glu	
			20					25					30			
Ile	Ile	Asn	Asp	Ser	Met	Gln	Ala	Leu	His	Ala	Leu	Ala	Lys	Leu	Met	
		35					40					45				
Pro	Gln	Leu	Asn	Ala	Gln	Cys	Ser	Pro	Val	Glu	Met	Leu	Glu	Thr	Ile	
		50				55					60					
Asn	Ser	Ala	Leu	Gly	Ala	Asn	Leu	Ser	Trp	Val	Ser	Val	Glu	Ser	Ala	
65					70					75					80	
Asp	Gly	Pro	Arg	Val	Val	Cys	Ala	Gly	Asp	Val	Thr	Cys	His	Ala	Phe	
				85					90				95			
Asn	Val	Ala	Asp	Phe	Leu	Ala	Ser	Thr	Leu	Leu	Gln	Arg	His	His	Arg	
			100					105					110			
Ala	Trp	Arg	Val	Ile	Tyr	Trp	Lys	Ala	His	Ile	Gly	Arg	Ala	Val	Phe	
		115					120					125				
Ser	Pro	Gln	His	Pro	Gly	Tyr	Ala	Arg	Leu	Gln	Ser	Gly	Val	Leu	Cys	
		130					135					140				
Lys	Leu	Ser	Ala	His	Gly	Arg	Gln	Cys	Ser	Gly	Tyr	Phe	Phe	Leu	Ala	
145					150					155					160	
Phe	Asn	Gly	Lys	Leu	Thr	Ser	Leu	Pro	Ile	Leu	Lys	Asn	Ile	Val	Val	
				165					170					175		
Val	Leu	Val	Glu	Lys	Leu	Lys	Asp	Tyr	Phe	Asp	Asp	Ile	Ile	Val	Arg	
			180					185					190			
Glu	Lys	Thr	Ala	Gln	Glu	Met	Gln	Arg	Val	Val	Thr	Gln	Tyr	Lys	Thr	
		195					200					205				
Leu	Phe	Glu	Arg	Ala	Pro	Val	Leu	Met	Asn	Ala	Phe	Asp	Arg	His	Asn	
		210				215					220					
Arg	Cys	Val	Leu	Trp	Asn	Ala	Glu	Cys	Glu	Lys	Val	Phe	Gly	Trp	Ser	
225					230					235					240	
Met	Thr	Glu	Ile	Asp	Glu	His	Pro	Asp	Pro	Leu	Ala	Leu	Phe	Tyr	Pro	
				245					250					255		
Asp	Pro	Glu	Glu	Arg	Gln	Arg	Val	Gln	Glu	Ser	Val	Arg	Phe	Ala	Pro	
		260						265					270			
Leu	Lys	Asp	Met	Tyr	Glu	Trp	His	Pro	Val	Arg	Lys	Asp	Gly	Thr	Gln	
		275					280					285				
Leu	Thr	Ile	Leu	Trp	Ser	Asn	Ile	Leu	Leu	Pro	Asp	Asn	Ser	Ile	Leu	

290 295 300
 Asn Ile Gly Leu Asp Ile Thr Glu Arg Lys Lys Ala Glu Gln Gln Leu
 305 310 315 320
 Thr Val Lys Ala Thr Asp Asp Leu Thr Gly Cys Leu Asn Arg Ser
 325 330 335
 Thr Ile Leu Gln Gln Leu Lys Met Ala Leu Ala Ala Ser Ser Pro Gln
 340 345 350
 Asp Val Ser Ser His Phe Cys Leu Leu Met Phe Asp Leu Asp Tyr Phe
 355 360 365
 Lys Gln Ile Asn Asp Arg Trp Gly His Gln Val Gly Asp Ala Ala Leu
 370 375 380
 Ile His Phe Cys Asp Arg Ile Arg Glu Val Ser Pro Ala Gly Ser Ala
 385 390 395 400
 Leu Gly Arg Val Gly Gly Glu Glu Phe Val Leu Leu Ala Arg Thr
 405 410 415
 Asp Gly Met Ala Ala Thr Leu Leu Ser Ser Arg Leu Arg Ala Ala Leu
 420 425 430
 Ile Ser Lys Pro Leu Arg Val Gly Asp Lys Thr Leu Val Leu Ser Phe
 435 440 445
 Ser Ala Gly Val Val Glu Val Cys Gln Gly Gln Arg Asp Thr Ser Ala
 450 455 460
 Ile Leu Met Arg Ala Asp Lys Ala Leu Tyr Asp Ala Lys Arg Thr Gly
 465 470 475 480
 Arg Gly Lys Thr Val Leu Ala Ser Asp Tyr Leu
 485 490

<210> 9543

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 9543

Pro Asn Phe Phe Arg Glu Val Ala Gln Phe Ser Ile Val Lys Lys Tyr
 1 5 10 15
 Glu Ser Ser Glu Asn Ile Met Leu Thr Val His His Leu Asn Gln Ser
 20 25 30
 Arg Ser His Arg Val Leu Trp Ala Leu Glu Glu Leu Gly Leu Thr Tyr
 35 40 45
 Asp Ile Val Arg Tyr Gln Arg Glu Lys Thr Met Leu Ala Pro Asp Ser
 50 55 60
 Leu Lys Lys Val His Pro Leu Gly Lys Ser Pro Val Leu Glu Asp Asn
 65 70 75 80
 Gly Leu Val Leu Ala Glu Ser Gly Ala Ile Met Glu Tyr Leu Gln Glu
 85 90 95
 Thr Tyr Asp Ser Ala Ser Arg Phe Lys Pro Leu Asp Pro Ala His Lys
 100 105 110
 Val Gln Tyr Arg Phe Trp Leu His Tyr Ala Glu Gly Ser Leu Met Pro
 115 120 125
 Leu Leu Leu Met Lys Leu Val Phe Asn Ser Leu Gly Lys Pro Pro Val
 130 135 140
 Pro Phe Gly Leu Arg Thr Leu Gly Lys Ala Leu Gly Gln Gly Val Gln
 145 150 155 160
 Lys Ala Tyr Leu Asn Arg Gln Leu Glu Thr His Ala Arg Phe Ile Asn
 165 170 175
 Asp His Leu Ala Glu Asn Ser Trp Phe Ala Gly Asp Thr Leu Thr Met
 180 185 190
 Ala Asp Ile Gln Met Ser Phe Pro Leu Phe Ala Leu Leu Ala Arg Gly
 195 200 205
 Gly Ile Asp Asn Leu Asp His Ile Ala Ala Trp Lys Gln Arg Val Glu
 210 215 220
 Ala Arg Pro Gly Trp Gln Thr Thr Leu Ala Lys Gly Gly Pro Leu Thr

```
<210> 9544
<211> 473
<212> PRT
<213> Enterobacter cloacae
```

<400>	9544																
Arg 1	Leu	Ala	Gly	Ser 5	Gly	Val	Ser	Thr	Ser	Leu	Thr	Asp	Phe	Leu	Lys		
Asn	Ser	Gln	Gly 20	Met	Phe	Ser	Met	Ser	Thr	Pro	Ser	Ala	Arg	Thr	Gly		
Gly	Ser	Leu	Asp	Ala	Met	Phe	Lys 40	Ile	Ser	Ala	Arg	Gly 45	Ser	Thr	Val		
Arg	Gln	Glu	Val	Val	Ala	Gly 55	Leu	Thr	Thr	Phe	Leu 60	Ala	Met	Val	Tyr		
Ser 65	Val	Ile	Val	Val	Pro 70	Gly	Met	Leu	Gly	Lys 75	Ala	Gly	Phe	Pro	Pro		
Ala	Ala	Val	Phe	Val	Ala	Thr	Cys	Leu	Val	Ala	Gly	Val	Gly	Ser	Ile		
Val	Met	Gly	Leu	Trp	Ala	Asn	Leu	Pro	Leu	Ala	Ile	Gly	Cys	Ala	Ile		
Ser	Leu	Thr	Ala	Phe	Thr	Ala	Phe	Ser	Leu	Val	Leu	Gly	Gln	Gln	Ile		
Ser	Val	Pro	Val	Ala	Leu	Gly 135	Ala	Val	Phe	Leu	Met	Gly	Val	Leu	Phe		
Thr	Val	Ile	Ser	Ala	Thr	Gly	Ile	Arg	Ser	Trp	Ile	Leu	Arg	Asn	Leu		
Pro	Gln	Gly	Val	Ala	His	Gly	Thr	Gly	Ile	Gly	Ile	Gly	Leu	Phe	Leu		
Leu	Leu	Ile	Ala	Ala	Asn	Gly	Val	Gly 185	Leu	Val	Ile	Lys	Asn	Pro	Leu		
Asp	Gly	Leu	Pro	Val	Ala	Leu	Gly 200	Asn	Phe	Ala	Ser	Phe	Pro	Val	Ile		
Met	Ser	Leu	Val	Gly	Leu	Ala	Val	Ile	Ile	Gly	Leu	Glu	Lys	Leu	Lys		
Val	Pro	Gly	Gly	Ile	Leu	Leu	Thr	Ile	Ile	Gly	Val	Ser	Ile	Val	Gly		
Leu	Ile	Phe	Asp	Pro	Thr	Val	His	Phe	Ser	Gly	Ile	Phe	Ala	Met	Pro		
Ser	Leu	Ser	Asp	Asp	Lys	Gly	Asn	Ser	Leu	Ile	Gly	Ser	Leu	Asp	Ile		
Met	Gly	Ala	Leu	Asn	Pro	Val	Ile	Leu	Pro	Ser	Val	Leu	Ala	Leu	Val		
Met	Thr	Ala	Val	Phe	Asp	Ala	Thr	Gly	Thr	Ile	Arg	Ala	Val	Ala	Gly		
Gln	Ala	Asn	Leu	Leu	Asp	Lys	Asp	Gly	Gln	Ile	Ile	Asp	Gly	Gly	Lys		
Ala	Leu	Thr	Thr	Asp	Ser	Leu	Ser	Ser	Val	Phe	Ser	Gly	Leu	Val	Gly		
Ala	Ala	Pro	Ala	Ala	Val	Tyr	Ile	Glu	Ser	Ala	Ala	Gly	Thr	Ala	Ala		
Gly	Gly	Lys	Thr	Gly	Leu	Thr	Ala	Ile	Thr	Val	Gly	Val	Leu	Phe	Leu		
Leu	Ile	Leu	Phe	Leu	Ser	Pro	Leu	Ser	Tyr	Leu	Val	Pro	Ala	Tyr	Ala		
Thr	Ala	Pro	Ala	Leu	Met	Tyr	Val	Gly	Leu	Leu	Met	Leu	Ser	Asn	Val		
Ala	Lys	Ile	Asp	Phe	Ala	Asp	Phe	Val	Asp	Ala	Met	Ser	Gly	Leu	Ile		

405 410 415
 Thr Ala Val Phe Ile Val Leu Thr Cys Asn Ile Val Thr Gly Ile Met
 420 425 430
 Ile Gly Phe Ala Ser Leu Val Ile Gly Arg Leu Val Ser Gly Glu Trp
 435 440 445
 Arg Lys Leu Asn Ile Gly Thr Val Val Ile Ala Val Ala Leu Val Ala
 450 455 460
 Phe Tyr Ala Gly Gly Trp Ala Ile
 465 470

<210> 9545

<211> 631

<212> PRT

<213> Enterobacter cloacae

<400> 9545

His Arg Gly Thr Phe Gln Ala Pro Gly Val Lys Thr Thr Gly Pro Tyr
 1 5 10 15
 Phe Met Leu Leu Val Tyr Pro Leu Phe Asp Gln His Phe Ala Thr Pro
 20 25 30
 Glu Gly Arg Asp Ser Ser Tyr Thr Phe Arg Val Phe Ser Pro Ala Phe
 35 40 45
 Asp Ala Asp Gln Gly Asn Gly Ile Lys Thr Ile Thr Ile Phe Ile Cys
 50 55 60
 Arg Arg Tyr Asn Arg Pro Gln Ser Gln Phe Ser Asn Gln Lys Ser Ile
 65 70 75 80
 Ala Met Lys Asn Ile Asn Pro Thr Gln Thr Ala Ala Trp Gln Ala Leu
 85 90 95
 Gln Lys His Phe Asp Glu Met Lys Asp Val Thr Ile Ala Asp Leu Phe
 100 105 110
 Ala Lys Asp Ala Asp Arg Phe Ser Lys Phe Ser Ala Thr Phe Asp Asp
 115 120 125
 Leu Met Leu Val Asp Phe Ser Lys Asn Arg Ile Thr Glu Glu Thr Leu
 130 135 140
 Ala Lys Leu Gln Asp Leu Ala Lys Glu Thr Glu Leu Ala Asp Ala Ile
 145 150 155 160
 Lys Ser Met Phe Ser Gly Glu Lys Ile Asn Arg Thr Glu Asp Arg Ala
 165 170 175
 Val Leu His Val Ala Leu Arg Asn Arg Ser Asn Thr Pro Ile Ile Val
 180 185 190
 Asp Gly Lys Asp Val Met Pro Glu Val Asn Ala Val Leu Glu Lys Met
 195 200 205
 Lys Thr Phe Ser Glu Ala Ile Ser Gly Ser Trp Lys Gly Tyr Thr
 210 215 220
 Gly Lys Ala Ile Thr Asp Val Val Asn Ile Gly Ile Gly Gly Ser Asp
 225 230 235 240
 Leu Gly Pro Phe Met Val Thr Glu Ala Leu Arg Pro Tyr Lys Asn His
 245 250 255
 Leu Asn Met His Phe Val Ser Asn Val Asp Gly Thr His Ile Ala Glu
 260 265 270
 Val Leu Lys Lys Val Asn Pro Glu Thr Thr Leu Phe Leu Val Ala Ser
 275 280 285
 Lys Thr Phe Thr Thr Gln Glu Thr Met Thr Asn Ala His Ser Ala Arg
 290 295 300
 Asp Trp Phe Leu Lys Thr Ala Gly Asp Glu Lys His Val Ala Lys His
 305 310 315 320
 Phe Ala Ala Leu Ser Thr Asn Gly Lys Ala Val Gly Glu Phe Gly Ile
 325 330 335
 Asp Thr Ala Asn Met Phe Glu Phe Trp Asp Trp Val Gly Gly Arg Tyr
 340 345 350
 Ser Leu Trp Ser Ala Ile Gly Leu Ser Ile Ile Leu Ser Val Gly Phe

```

      355                      360                      365
Asp Asn Phe Val Glu Leu Leu Ser Gly Ala His Ala Met Asp Lys His
      370                      375                      380
Phe Ser Thr Thr Ala Pro Glu Lys Asn Leu Pro Val Leu Leu Ala Leu
385                      390                      395                      400
Ile Gly Ile Trp Tyr Asn Asn Phe Phe Gly Ala Glu Thr Glu Ala Ile
      405                      410                      415
Leu Pro Tyr Asp Gln Tyr Met His Arg Phe Ala Ala Tyr Phe Gln Gln
      420                      425                      430
Gly Asn Met Glu Ser Asn Gly Lys Tyr Val Asp Arg Asn Gly Asn Ala
      435                      440                      445
Val Asp Tyr Gln Thr Gly Pro Ile Ile Trp Gly Glu Pro Gly Thr Asn
      450                      455                      460
Gly Gln His Ala Phe Tyr Gln Leu Ile His Gln Gly Thr Lys Met Val
465                      470                      475                      480
Pro Cys Asp Phe Ile Ala Pro Ala Ile Thr His Asn Pro Leu Ser Asp
      485                      490                      495
His His Pro Lys Leu Leu Ser Asn Phe Phe Ala Gln Thr Glu Ala Leu
      500                      505                      510
Ala Phe Gly Lys Ser Arg Glu Val Val Glu Gln Glu Tyr Arg Asp Gln
      515                      520                      525
Gly Lys Asp Pro Ala Thr Leu Glu His Val Val Pro Phe Lys Val Phe
      530                      535                      540
Glu Gly Asn Arg Pro Thr Asn Ser Ile Leu Leu Arg Glu Ile Thr Pro
545                      550                      555                      560
Phe Ser Leu Gly Ala Leu Ile Ala Leu Tyr Glu His Lys Ile Phe Thr
      565                      570                      575
Gln Gly Ala Ile Leu Asn Ile Phe Thr Phe Asp Gln Trp Gly Val Glu
      580                      585                      590
Leu Gly Lys Gln Leu Ala Asn Arg Ile Leu Pro Glu Leu Gly Asp Asp
      595                      600                      605
Lys Ala Ile Asp Ser His Asp Ser Ser Thr Asn Gly Leu Ile Asn Arg
      610                      615                      620
Tyr Lys Ala Trp Arg Ala
625                      630

```

<210> 9546

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 9546

```

Pro His Phe Gly Val Val Ile Ser Pro Leu Arg Arg Arg Val Val Lys
1                      5                      10                      15
Arg Pro Ala Ile Ile Leu Ile Cys Leu Leu Leu Gln Ala Cys Ser Ala
      20                      25                      30
Thr Thr Lys Gly Leu Gly His Ser Leu Trp Asp Ser Met Phe Gly Thr
      35                      40                      45
Pro Gly Val His Leu Thr Asp Asp Glu Leu Gln Asn Met Pro Tyr Ala
      50                      55                      60
Ser Gln Tyr Met Gln Leu Asn Asp Gly Pro Gln Leu Phe Val Val Leu
65                      70                      75                      80
Ala Phe Asp Glu Asn Gly Gln Gln Lys Trp Val Thr Gln Asp Gln Ala
      85                      90                      95
Thr Ile Val Thr Gln His Ser Arg Ile Val Lys Thr Leu Leu Gly Gly
      100                      105                      110
Asp Asn Leu Leu Glu Val Asn Asn Leu Ala Glu Asp Pro Leu Ile Lys
      115                      120                      125
Pro Asn Gln Ile Val Asp Gly Ala Ser Trp Thr Arg Thr Met Gly Trp
      130                      135                      140
Thr Glu His Lys Gln Val Arg Tyr Ala Thr Ala Arg Ser Thr Phe Arg

```


145 150 155 160
 Trp Asp Gly Thr Asp Ser Val Lys Val Gly Ser Asp Glu Thr Gln Val
 165 170 175
 Arg Val Leu Asp Glu Val Thr Thr Asp Gln Ala Thr Trp His Asn
 180 185 190
 Arg Phe Trp Val Asp Glu Glu Gly Gln Ile Arg Gln Ser Leu Gln Tyr
 195 200 205
 Leu Gly Ala Gly Phe Phe Pro Val Lys Thr Thr Leu Ile Lys Ala Ala
 210 215 220
 Lys Ser
 225

<210> 9547

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 9547

Arg Arg Glu Lys Gly Met Ala Ser Val Gln Leu Arg Asn Val Thr Lys
 1 5 10 15
 Ala Trp Gly Asp Val Val Val Ser Lys Asp Ile Asn Leu Asp Ile His
 20 25 30
 Glu Gly Glu Phe Val Val Phe Val Gly Pro Ser Gly Cys Gly Lys Ser
 35 40 45
 Thr Leu Leu Arg Met Ile Ala Gly Leu Glu Thr Ile Thr Arg Gly Asp
 50 55 60
 Leu Phe Ile Gly Asp Thr Arg Met Asn Asp Ile Pro Pro Ala Glu Arg
 65 70 75 80
 Gly Val Gly Met Val Phe Gln Ser Tyr Ala Leu Tyr Pro His Leu Ser
 85 90 95
 Val Ala Glu Asn Met Ser Phe Gly Leu Lys Leu Ala Gly Ala Lys Lys
 100 105 110
 Glu Thr Ile Asn Gln Arg Val Thr Gln Val Ala Glu Val Leu Gln Leu
 115 120 125
 Ala His Leu Leu Glu Arg Lys Pro Lys Ala Leu Ser Gly Gly Gln Arg
 130 135 140
 Gln Arg Val Ala Ile Gly Arg Thr Leu Val Ala Glu Pro Arg Val Phe
 145 150 155 160
 Leu Leu Asp Glu Pro Leu Ser Asn Leu Asp Ala Ala Leu Arg Val Gln
 165 170 175
 Met Arg Ile Glu Ile Ser Arg Leu His Lys Arg Leu Gly Arg Thr Met
 180 185 190
 Ile Tyr Val Thr His Asp Gln Val Glu Ala Met Thr Leu Ala Asp Lys
 195 200 205
 Ile Val Val Leu Asp Ala Gly Arg Val Ala Gln Val Gly Lys Pro Leu
 210 215 220
 Glu Leu Tyr His Tyr Pro Ala Asp Arg Phe Val Ala Gly Phe Ile Gly
 225 230 235 240
 Ser Pro Lys Met Asn Phe Leu Pro Val Lys Val Thr Ala Thr Ala Ile
 245 250 255
 Glu Gln Val Gln Val Glu Leu Pro Asn Arg Gln Gln Val Trp Leu Pro
 260 265 270
 Val Asp Ser Ala Asn Val Gln Val Gly Ala Asn Met Ser Leu Gly Ile
 275 280 285
 Arg Pro Glu His Leu Leu Pro Ser His Ile Ala Asp Val Thr Leu Glu
 290 295 300
 Gly Glu Val Gln Val Val Glu Gln Leu Gly His Glu Thr Gln Ile His
 305 310 315 320
 Ile Gln Ile Pro Ala Ile Arg Gln Asn Leu Val Tyr Arg Gln Asn Asp
 325 330 335
 Val Val Leu Val Glu Glu Gly Ala Thr Phe Ala Ile Gly Leu Pro Pro

400> 9548															
Ala	Phe	Gln	Leu	Gln	Arg	Lys	Ala	Met	Ile	Ser	Gly	Asp	Arg	Ile	Met
1			5						10					15	
Ile	Thr	Leu	Arg	Lys	Val	Pro	Leu	Ala	Val	Ala	Ile	Ala	Ala	Gly	Ile
		20						25				30			
Leu	Ser	Ala	Gln	Ala	Gly	Ala	Val	Asp	Phe	Lys	Gly	Tyr	Ala	Arg	Ser
		35					40					45			
Gly	Ile	Gly	Trp	Thr	Gly	Ser	Gly	Gly	Glu	Gln	Gln	Cys	Phe	Gln	Ala
	50					55				60					
Thr	Gly	Ala	Gln	Ser	Lys	Tyr	Arg	Leu	Gly	Asn	Glu	Cys	Glu	Thr	Tyr
65					70					75					80
Ala	Glu	Leu	Lys	Leu	Gly	Gln	Glu	Val	Trp	Lys	Glu	Gly	Asp	Lys	Ser
			85						90					95	
Phe	Tyr	Phe	Asp	Thr	Asn	Val	Ala	Tyr	Ser	Val	Ser	Gln	Gln	Asn	Asp
			100					105					110		
Trp	Glu	Ser	Thr	Ser	Pro	Ala	Phe	Arg	Glu	Ala	Asn	Val	Gln	Gly	Lys
		115					120					125			
Asn	Leu	Ile	Glu	Trp	Leu	Pro	Gly	Ser	Thr	Ile	Trp	Ala	Gly	Lys	Arg
	130					135					140				
Phe	Tyr	Gln	Arg	His	Asp	Val	His	Met	Ile	Asp	Phe	Tyr	Tyr	Trp	Asp
145					150					155					160
Ile	Ser	Gly	Pro	Gly	Ala	Gly	Ile	Glu	Asn	Ile	Asp	Leu	Gly	Phe	Gly
			165					170						175	
Lys	Leu	Ser	Leu	Ala	Ala	Thr	Arg	Ser	Ser	Glu	Ser	Gly	Gly	Ser	Ala
			180					185					190		
Thr	Phe	Ala	Asp	Arg	Asp	Ala	Asn	Gly	Asp	Arg	Ile	Tyr	Asp	Asn	Val
		195					200					205			
Val	Pro	Asn	Asp	Val	Phe	Asp	Val	Arg	Leu	Ala	Gly	Leu	Glu	Thr	Asn
	210					215					220				
Pro	Gly	Gly	Thr	Leu	Glu	Leu	Gly	Val	Asp	Tyr	Gly	His	Thr	Asn	Ile
225					230					235					240
Pro	Asp	Asp	Tyr	Tyr	Leu	Gln	Pro	Gly	Ala	Ser	Lys	Asp	Gly	Trp	Leu
			245					250					255		
Phe	Thr	Ala	Glu	His	Thr	Gln	Ser	Met	Met	Lys	Gly	Phe	Asn	Lys	Phe
			260					265				270			
Val	Leu	Gln	Tyr	Gly	Thr	Asp	Ser	Met	Thr	Ser	Asn	Gly	Lys	Gly	Ile
		275					280					285			
Pro	Gln	Gly	Gly	Ser	Ile	Asp	Asn	Asp	Gly	Ser	Met	Trp	Arg	Val	Leu
	290					295					300				
Asp	His	Gly	Ala	Ile	Thr	Leu	Ala	Asp	Arg	Trp	Asp	Leu	Met	Tyr	Val
305					310					315					320
Gly	Met	Tyr	Gln	Asn	Ile	Asp	Arg	Asp	Asn	Asn	Asn	Gly	Thr	Glu	Trp
			325					330						335	
Trp	Thr	Val	Gly	Val	Arg	Pro	Met	Phe	Lys	Trp	Thr	Pro	Ile	Met	Ser
		340						3							

385					390					395					400
Ala	Lys	Trp	Asp	Glu	Lys	Trp	Gly	Tyr	Ala	Asn	Asn	Asp	Ser	Gly	Ala
				405					410					415	
Gly	Tyr	Thr	Ser	Gly	Val	Ala	Tyr	Ser	Asp	Thr	Ser	Ala	Lys	Thr	Phe
			420					425					430		
Ser	Arg	Gly	Asp	Asn	Asp	Glu	Trp	Thr	Phe	Gly	Ala	Gln	Met	Glu	Ile
		435					440					445			
Trp	Trp														
	450														

<210> 9549

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 9549

Gly	Ala	Ala	Arg	Tyr	Cys	Leu	Ala	Thr	Ala	Val	Leu	Thr	Leu	Ser	Glu
1			5						10					15	
Val	Ile	Thr	Met	Lys	Met	Lys	Lys	Ser	Leu	Val	Ala	Leu	Cys	Leu	Ser
			20					25					30		
Ala	Gly	Leu	Leu	Ala	Cys	Ala	Pro	Ala	Leu	Thr	Tyr	Ala	Asp	Val	Asn
		35				40						45			
Phe	Val	Pro	Gln	Asn	Thr	Ser	Ala	Ala	Pro	Ala	Ile	Pro	Ala	Ala	Ala
	50				55						60				
Leu	Gln	Gln	Leu	Val	Trp	Thr	Pro	Val	Asp	Gln	Ser	Lys	Thr	Gln	Thr
65				70					75					80	
Thr	Gln	Leu	Ala	Ala	Gly	Gly	Gln	Ser	Leu	Asn	Val	Pro	Gly	Ile	Ser
			85					90						95	
Gly	Pro	Val	Ala	Ala	Phe	Ser	Val	Pro	Ala	Asn	Ile	Gly	Glu	Leu	Thr
		100					105						110		
Leu	Thr	Leu	Thr	Ser	Glu	Val	Asn	Lys	Gln	Thr	Ser	Val	Phe	Ala	Pro
	115					120						125			
Asn	Val	Leu	Ile	Leu	Asp	Gln	Ser	Met	Thr	Pro	Ser	Ala	Phe	Phe	Pro
	130				135						140				
Ser	Asp	Tyr	Phe	Ser	Tyr	Gln	Glu	Pro	Gly	Val	Met	Ser	Ala	Asp	Arg
145				150					155					160	
Leu	Glu	Gly	Val	Met	Arg	Leu	Thr	Pro	Ala	Leu	Gly	Gln	Gln	Lys	Ile
			165					170						175	
Tyr	Val	Leu	Val	Phe	Thr	Thr	Glu	Lys	Asp	Leu	Gln	Gln	Thr	Thr	Lys
		180					185						190		
Leu	Val	Asp	Pro	Ala	Lys	Ala	Tyr	Ala	Lys	Gly	Thr	Gly	Asn	Ala	Val
	195					200						205			
Pro	Asp	Ile	Pro	Asp	Pro	His	Ala	Arg	His	Thr	Thr	Asp	Gly	Leu	Ile
	210				215							220			
Lys	Leu	Lys	Val	Ser	Thr	Asn	Ser	Ala	Ser	Ser	Val	Leu	Val	Gly	Pro
225				230					235					240	
Leu	Phe	Gly	Ser	Ser	Gly	Pro	Gly	Pro	Val	Thr	Val	Gly	Asn	Thr	Ala
			245					250					255		
Ala	Pro	Val	Tyr	Ala	Ala	Pro	Ala	Ala	Thr	Pro	Ala	Ala	Ala	Pro	Ala
		260					265					270			
Pro	Ala	Lys	Lys	Ala	Glu	Pro	Val	Leu	Asn	Asp	Thr	Glu	Thr	Tyr	Phe
	275					280						285			
Asn	Asn	Ala	Ile	Lys	Gln	Ala	Val	Lys	Asn	Gly	Asp	Val	Asp	Lys	Ala
	290				295					300					
Leu	Lys	Leu	Leu	Asp	Glu	Ala	Glu	Arg	Leu	Gly	Ser	Thr	Thr	Ala	Arg
305				310					315					320	
Ser	Thr	Phe	Ile	Ser	Ser	Val	Lys	Gly	Lys	Gly					
				325				330							

<210> 9550

<211> 75

<212> PRT

<213> *Enterobacter cloacae*

<400> 9550

His Glu Asp Thr Ile Met Asn Lys Asp Glu Ile Gly Gly Asn Trp Lys
 1 5 10 15
 Gln Phe Lys Gly Lys Ala Lys Glu Gln Trp Gly Lys Leu Thr Asp Asp
 20 25 30
 Asp Met Thr Val Ile Glu Gly Lys Arg Asp Gln Leu Val Gly Lys Ile
 35 40 45
 Gln Glu Arg Tyr Gly Tyr Glu Lys Asp Gln Ala Glu Asn Glu Val Lys
 50 55 60
 Asp Trp Glu Thr Arg Asn Asp Tyr Arg Trp
 65 70 75

<210> 9551

<211> 484

<212> PRT

<213> *Enterobacter cloacae*

<400> 9551

Ser Phe Asp Pro Leu Phe Ile Ser Val Thr Pro Phe Thr Met Ala Gly
 1 5 10 15
 Asn Lys Pro Phe Asn Lys Gln Thr Glu Pro Arg Glu Arg Asp Tyr Gln
 20 25 30
 Val Ala Gly Leu Lys Val Pro Pro His Ser Ile Glu Ala Glu Gln Ser
 35 40 45
 Val Leu Gly Gly Leu Met Leu Asp Asn Glu Arg Trp Asp Asp Val Ala
 50 55 60
 Glu Arg Val Val Ala Glu Asp Phe Tyr Thr Arg Pro His Arg His Ile
 65 70 75 80
 Phe Thr Glu Met Ala Arg Leu Gln Glu Ser Gly Ser Pro Ile Asp Leu
 85 90 95
 Ile Thr Leu Ala Glu Ser Leu Glu Arg Leu Gly Gln Leu Asp Ser Val
 100 105 110
 Gly Gly Phe Ala Tyr Leu Ala Glu Leu Ser Lys Asn Thr Pro Ser Ala
 115 120 125
 Ala Asn Ile Ser Ala Tyr Ala Asp Ile Val Arg Glu Arg Ala Val Val
 130 135 140
 Arg Glu Met Ile Ser Val Ala Asn Glu Ile Ala Glu Ala Gly Phe Asp
 145 150 155 160
 Pro Gln Gly Arg Thr Ser Glu Asp Leu Leu Asp Leu Ala Glu Ser Arg
 165 170 175
 Val Phe Lys Ile Ala Glu Ser Arg Ala Asn Lys Asp Glu Gly Pro Lys
 180 185 190
 Asn Ile Ala Asp Val Leu Asp Ala Thr Val Ala Arg Ile Glu Gln Leu
 195 200 205
 Phe Gln Gln Pro His Asp Gly Val Thr Gly Val Asn Thr Gly Tyr Asp
 210 215 220
 Asp Leu Asn Lys Lys Thr Ala Gly Leu Gln Pro Ser Asp Leu Ile Ile
 225 230 235 240
 Val Ala Ala Arg Pro Ser Met Gly Lys Thr Thr Phe Ala Met Asn Leu
 245 250 255
 Val Glu Asn Ala Ala Met Leu Gln Asp Lys Pro Val Leu Ile Phe Ser
 260 265 270
 Leu Glu Met Pro Ser Glu Gln Ile Met Met Arg Ser Leu Ala Ser Leu
 275 280 285
 Ser Arg Val Asp Gln Thr Arg Ile Arg Thr Gly Gln Leu Asp Asp Glu
 290 295 300
 Asp Trp Ala Arg Ile Ser Gly Thr Met Gly Ile Leu Leu Glu Lys Arg
 305 310 315 320

```
<210> 9552
<211> 246
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

465 470 475 480
 Thr Thr Asn Ser Thr Ser His Leu Ile Ala Glu His Ile Ile Glu Met
 485 490 495
 Ala Gln Ser Leu Arg Leu Lys Thr Ile Ala Glu Gly Val Glu Thr Gly
 500 505 510
 Glu Gln Val Ser Trp Leu Leu Lys Arg Gly Val Gln Tyr Cys Gln Gly
 515 520 525
 Trp His Phe Ala Lys Ala Met Pro Pro Gln Ala Phe Met Ala Trp Gln
 530 535 540
 Gln Gln Pro Leu Arg
 545 550

<210> 9556

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 9556

Phe Ile Ser Val Asp Thr Val Arg Ser Leu Tyr Trp Arg Leu Val Ser
 1 5 10 15
 Phe Leu Arg Lys Thr Pro Met Ala Val Ala Leu Ser Arg Val Thr Pro
 20 25 30
 Ala Val Val Gln Arg Leu Gln Val Pro Val Gln Val Leu Leu Tyr Ala
 35 40 45
 Gly Leu Phe Val Phe Ala Glu Tyr Leu Val Asp Trp Leu His Leu Pro
 50 55 60
 Leu Pro Ala Asn Leu Val Gly Met Val Leu Met Leu Thr Leu Ile Leu
 65 70 75 80
 Cys Arg Ala Leu Pro Leu Asn Trp Val Arg Ala Gly Ala Arg Trp Leu
 85 90 95
 Leu Ala Glu Met Leu Leu Phe Phe Val Pro Ala Val Val Ala Val Val
 100 105 110
 Asn Tyr Ala Gln Leu Leu Met Val Asp Gly Trp Arg Ile Phe Ala Val
 115 120 125
 Ile Ala Leu Ser Thr Leu Met Val Leu Gly Ala Thr Ala Trp Val Val
 130 135 140
 Asp Lys Val Tyr Arg Phe Glu Ile Ser Arg Gln Lys His Asp
 145 150 155

<210> 9557

<211> 511

<212> PRT

<213> Enterobacter cloacae

<400> 9557

Arg Leu Asn Ile Asn Asp Ala Gly Leu Ala Lys Ile Ser Ser Ser Val
 1 5 10 15
 Pro Leu Val Val Ser Phe Leu Ile Leu Ile Ser Lys Asp Trp Thr Phe
 20 25 30
 Ile Arg His Ile Ser Ala Ser Phe Leu Leu Ile Ile Cys Leu Ser Gly
 35 40 45
 Ser Lys Glu Thr Gly Glu Ile Met Leu Thr Phe Leu Glu Leu Leu Ile
 50 55 60
 Gly Val Val Val Ile Val Gly Val Ala Arg Tyr Ile Ile Lys Gly Tyr
 65 70 75 80
 Ser Ala Thr Gly Val Leu Phe Val Gly Gly Leu Thr Leu Leu Ile Ile
 85 90 95
 Ser Ala Leu Met Gly His Gln Val Leu Pro Ala Ser Glu Ala Ser Thr
 100 105 110
 Gly Tyr Thr Ala Thr Asp Ile Val Glu Tyr Ile Lys Ile Leu Leu Met
 115 120 125

Ser Arg Gly Gly Asp Leu Gly Met Met Ile Met Met Leu Cys Gly Phe
 130 135 140
 Ala Ala Tyr Met Thr His Ile Gly Ala Asn Asp Met Val Val Lys Leu
 145 150 155 160
 Ala Ser Lys Pro Leu Gln Tyr Ile Asn Ser Pro Tyr Leu Leu Met Val
 165 170 175
 Ala Ala Tyr Phe Leu Ala Cys Leu Met Ser Leu Ala Val Ser Ser Ala
 180 185 190
 Thr Gly Leu Gly Val Leu Leu Met Ala Thr Leu Phe Pro Val Met Val
 195 200 205
 Asn Val Gly Ile Ser Arg Gly Ala Ala Ala Ile Cys Ala Ser Pro
 210 215 220
 Ala Ala Ile Ile Leu Ser Pro Thr Ser Gly Asp Val Val Leu Ala Ala
 225 230 235 240
 Lys Ala Ala Glu Met Ser Leu Ile Asp Phe Ala Phe Lys Thr Thr Leu
 245 250 255
 Pro Ile Ser Ile Thr Ala Ile Leu Gly Met Gly Val Ala His Phe Phe
 260 265 270
 Trp Gln Arg Tyr Leu Asp Lys Lys Glu Asn Val Ser His Glu Met Met
 275 280 285
 Asp Val Ser Glu Ile Thr Thr Thr Ala Pro Ala Phe Tyr Ser Ile Leu
 290 295 300
 Pro Phe Met Pro Ile Ile Gly Val Leu Ile Phe Asp Gly Lys Trp Gly
 305 310 315 320
 Pro Gln Leu His Ile Ile Thr Ile Leu Val Ile Cys Met Leu Leu Ala
 325 330 335
 Ala Ile Leu Glu Phe Val Arg Gly Phe Asn Thr Gln Lys Val Phe Thr
 340 345 350
 Gly Leu Glu Val Ala Phe Arg Gly Met Ala Asp Ala Phe Ala Gly Val
 355 360 365
 Val Met Leu Leu Val Ala Ala Gly Val Phe Ala Gln Gly Leu Ser Thr
 370 375 380
 Ile Gly Phe Ile Gln Ser Leu Ile Ser Ile Ala Thr Ser Phe Gly Ser
 385 390 395 400
 Ala Ser Ile Ile Leu Met Leu Val Leu Val Val Leu Thr Met Leu Ala
 405 410 415
 Ala Met Thr Thr Gly Ser Gly Asn Ala Pro Phe Tyr Ala Phe Val Glu
 420 425 430
 Met Ile Pro Lys Leu Ala His Ser Ser Gly Ile Asn Pro Ala Tyr Leu
 435 440 445
 Ser Ile Pro Met Leu Gln Ala Ser Asn Leu Gly Arg Thr Ile Ser Pro
 450 455 460
 Val Ser Gly Val Val Val Ala Val Ala Gly Met Ala Lys Ile Ser Pro
 465 470 475 480
 Phe Glu Val Val Lys Arg Thr Ser Val Pro Val Leu Val Gly Leu Ile
 485 490 495
 Ile Val Ile Ile Ala Thr Glu Val Leu Val Pro Gly Ala Ala
 500 505 510

<210> 9558

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 9558

Ser Trp Arg Tyr Leu Gln Glu Glu Phe His Met Ala Lys Lys Leu Ile
 1 5 10 15
 Ala Leu Cys Ala Cys Pro Met Gly Leu Ala His Thr Phe Met Ala Ala
 20 25 30
 Gln Ala Leu Glu Asp Ala Ala Thr Glu Ala Gly Tyr Glu Val Lys Ile
 35 40 45

Glu Thr Gln Gly Ala Asp Gly Ile Gln Asn Arg Leu Thr Pro Gln Asp
 50 55 60
 Ile Ala Asp Ala Asp Ile Ile His Ala Ile Ala Ile Thr Pro Glu
 65 70 75 80
 Asp Asn Glu Arg Phe Glu Met Arg Asp Val Tyr Glu Ile Thr Leu Gln
 85 90 95
 Asp Ala Ile Lys Asn Ala Ala Gly Thr Leu Lys Glu Ile Glu Glu Met
 100 105 110
 Ile Ala Ala Glu Gln
 115

<210> 9559

<211> 425

<212> PRT

<213> Enterobacter cloacae

<400> 9559

Ser Ser His Pro Gly Val Phe Val Met Ala Ile Lys Lys Arg Ser Ala
 1 5 10 15
 Val Arg Pro Asp Ser His Glu Gly Asp Thr Leu Ala Ile Lys Ser Ala
 20 25 30
 Pro Val Ala Ala Gly Ala Ser Phe Trp Lys Glu Leu Pro Gln His Ile
 35 40 45
 Met Ser Gly Ile Ser Arg Met Val Pro Thr Leu Ile Met Gly Gly Val
 50 55 60
 Ile Leu Ala Ile Ser Gln Leu Ile Ala Tyr Val Trp Leu Glu Ile Pro
 65 70 75 80
 Pro Asp Thr Gly Ile Leu Asp Ala Leu Asn Ser Gly Lys Phe Thr Gly
 85 90 95
 Phe Asn Leu Ser Leu Leu Lys Phe Gly Tyr Leu Thr Glu Ser Phe Gly
 100 105 110
 Gly Leu Leu Phe Ser Phe Ala Ile Pro Met Phe Ala Ala Phe Val Ala
 115 120 125
 Asn Ser Ile Gly Gly Lys Leu Ala Phe Pro Ala Gly Phe Ile Gly Gly
 130 135 140
 Leu Val Ala Thr Gln Pro Thr Leu Val Leu Asn Phe Asp Ala Glu Lys
 145 150 155 160
 Leu Thr Trp Leu Ala Thr Lys Pro Val Pro Ser Thr Phe Ile Gly Ala
 165 170 175
 Leu Ile Ile Ala Ile Ala Ala Gly Tyr Leu Val Lys Trp Leu Asn Ser
 180 185 190
 Arg Ile Asn Val Pro Gln Tyr Leu Leu Ala Phe Lys Ser Thr Phe Leu
 195 200 205
 Ile Pro Ile Leu Ser Ala Leu Phe Val Met Leu Ala Met Tyr Tyr Ile
 210 215 220
 Ile Thr Pro Ile Gly Gly Trp Leu Asn Ala Gly Met Arg Thr Val Leu
 225 230 235 240
 Leu Ala Ala Gly Gln Ala Gly Ser Met Met Tyr Ala Ile Gly Met Ala
 245 250 255
 Ala Ala Thr Ala Ile Asp Leu Gly Gly Pro Ile Asn Lys Ala Ala Gly
 260 265 270
 Phe Val Gly Leu Gly Leu Thr Thr Asp His Val Leu Pro Ile Thr Ser
 275 280 285
 Arg Ala Val Ala Ile Val Ile Pro Pro Ile Gly Leu Gly Leu Ala Thr
 290 295 300
 Leu Ile Asp His Arg Leu Thr Gly Lys Arg Leu Phe Ser Pro Gln Leu
 305 310 315 320
 Tyr Pro Gln Gly Lys Thr Ala Met Phe Leu Ala Phe Met Gly Ile Ser
 325 330 335
 Glu Gly Ala Ile Pro Phe Leu Leu Glu Asn Pro Leu Ala Thr Leu Pro
 340 345 350

Ala Tyr Met Ala Gly Ala Ile Ala Gly Ala Met Thr Ala Thr Ala Leu
 355 360 365
 Gly Ala Val Gln Trp Phe Pro Glu Ser Ala Ile Trp Ala Trp Pro Leu
 370 375 380
 Val Thr Asn Leu Gly Ala Tyr Met Leu Ser Ile Val Val Gly Ala Ala
 385 390 395 400
 Ile Thr Ala Leu Leu Val Val Ile Ile Arg Asn Ser Leu His Lys Arg
 405 410 415
 Gly Lys Leu Ala Ile Asp Thr Leu
 420 425

<210> 9560

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 9560

Arg Cys Gly Ala Gly Asp Gly Asn Gly Arg Arg Gly Ala Leu Tyr Leu
 1 5 10 15
 Arg Gln Thr Ala Ile Ala Asp Gly Arg Ile Arg Val Asp Arg Asp Leu
 20 25 30
 Leu Arg Ala Leu Ser Glu Ala Asp Ala Ile Ala Ala Ser Glu Gln Glu
 35 40 45
 Val Arg Asp Ile Leu Leu Ser Glu Ala Gln Lys Tyr His Lys Glu Val
 50 55 60
 Gln Phe Asp Gly Leu Gly Ser Val Leu Ile Arg Val Asn Gln Ser Arg
 65 70 75 80
 Gly Pro Lys Val Met Val Cys Ala His Met Asp Glu Val Gly Phe Met
 85 90 95
 Val Arg Ser Val Ser Arg Glu Gly Ala Ile Asp Val Leu Pro Ile Gly
 100 105 110
 Asn Val Arg Met Met Ala Arg Thr Leu Gln Pro Val Arg Ile Thr Thr
 115 120 125
 Arg Asn Gly Glu Lys Ile Pro Gly Leu Leu Asp Gly Asp Leu Lys Gly
 130 135 140
 Glu Asn Val Asp Asn Leu Arg Val Asp Ile Gly Ala Thr Ser Ala Glu
 145 150 155 160
 Glu Val Phe Ala Ala Gly Ile Asp Ala Gly Asp Arg Val Thr Phe Asp
 165 170 175
 Thr Pro Phe Gln Thr Leu Pro His Asn Arg Val Met Gly Lys Ala Phe
 180 185 190
 Asp Asp Arg Leu Gly Cys Tyr Leu Leu Ile Ala Leu Leu Arg Glu Leu
 195 200 205
 His Gln Thr Pro Leu Asp Cys Glu Leu Trp Leu Val Ala Ser Ser Ser
 210 215 220
 Glu Glu Val Gly Leu Arg Gly Gly Gln Thr Ala Thr Arg Ala Ile His
 225 230 235 240
 Pro Asp Ile Ala Leu Val Leu Asp Thr Ala Cys Trp Ser Lys Asn Phe
 245 250 255
 Asp Tyr Gly Ser Ala Asn His Arg Gln Ile Gly Ala Gly Pro Met Leu
 260 265 270
 Val Leu Tyr Asp Lys Thr Leu Ile Ala Pro Ala Lys Leu Ile Ala Leu
 275 280 285
 Ala Glu Thr Ile Ala Arg Ser Gln Gly Ile Pro Leu Gln Lys Asp Met
 290 295 300
 Phe Ser Asn Gly Gly Thr Asp Gly Gly Ala Ile His Leu Ser Gly Thr
 305 310 315 320
 Gly Val Pro Thr Leu Val Leu Gly Pro Pro Thr Arg His Gly His Cys
 325 330 335
 Ala Ala Ser Ile Ala Asp Glu Lys Asp Ile His His Thr Gln Leu
 340 345 350

Leu Val Ala Leu Val Ala Gly Met Asn Arg Glu Thr Val Asp His Leu
 355 360 365
 Thr Asp Phe Arg Cys
 370

<210> 9561

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 9561

Leu Pro Ser Val Val Leu Gln Asp Gly Ile Thr Thr Ala Asn Ser Thr
 1 5 10 15
 His Ser Gly Arg Asn Met Ala Asn Leu Tyr Asp Leu Lys Lys Phe Asp
 20 25 30
 Leu Asn Leu Leu Val Ile Phe Glu Cys Ile Tyr Gln His Leu Ser Ile
 35 40 45
 Ser Arg Ala Ala Glu Thr Leu Tyr Ile Thr Pro Ser Ala Val Ser Gln
 50 55 60
 Ser Leu Gln Arg Leu Arg Gly Gln Leu Asn Asp Pro Leu Phe Ile Arg
 65 70 75 80
 Ser Gly Lys Gly Ile Thr Pro Thr Thr Val Gly Thr Asn Leu His His
 85 90 95
 His Leu Glu Lys Asn Leu Asn Gln Leu Glu Gln Thr Ile Asn Met Met
 100 105 110
 His His Ser Asp Ile Lys Lys Phe Val Ile Tyr Cys Ser Gln Met
 115 120 125
 Val Ser Pro Gly Ser Met Leu Glu Pro Leu Lys Leu Leu Ile Ser Glu
 130 135 140
 Glu Asn Tyr Glu Ile Glu Gln Arg Asp Met Leu Ile Ser Ser Glu Ser
 145 150 155 160
 Ala Glu Asp Leu Leu Ala Tyr Arg Lys Ala Asp Leu Ile Phe Ser Ile
 165 170 175
 Ala Pro Ile His Asn Arg Ser Val Val Cys Thr His Phe Thr Thr Val
 180 185 190
 Pro Ile Ala Leu Ile Cys Arg Ala Asp His Pro Arg Leu Ala Asp Ala
 195 200 205
 Val Thr Leu Glu Val Leu Tyr Gln Glu Lys Phe Thr Phe Tyr Gln Ser
 210 215 220
 Ala His Pro Gly Val Lys Glu Phe Gln Ser Arg Ala Asn Asp Ala Phe
 225 230 235 240
 Pro Glu Arg Asn Ile Ala Phe Arg Thr Asp Ser Leu Ser Ser Leu Ile
 245 250 255
 Ser Met Val Cys Ser Ser Asp Leu Leu Gly Phe Ile Pro Val Ser Ile
 260 265 270
 Tyr Glu Thr Tyr Lys Glu Pro Leu Lys Leu Lys Arg Leu Glu Pro Pro
 275 280 285
 Phe Glu Leu Pro Glu Leu Lys Ile Tyr Met Leu Tyr Ser Arg Ser Ser
 290 295 300
 Leu Asn Ser Thr Val Phe Ser Thr Phe Ile Glu Lys Met His Lys Leu
 305 310 315 320
 Cys Val Ser Pro Pro Ser Ala
 325

<210> 9562

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 9562

Lys Glu Met Thr Asp Asn Leu Gln Leu Thr His Leu Val Glu Ala Cys

1				5				10				15
Arg	Trp	Ile	Gly	Ala	Lys	Gly	Trp	Ala	Pro	Ala	Thr	Gly
			20					25				30
Ser	Met	Arg	Gln	Asp	Glu	His	Leu	Cys	Trp	Leu	Ser	Glu
		35					40				45	Ser
Asp	Lys	Gly	Ser	Leu	Thr	Thr	Ala	Asp	Phe	Leu	Gln	Val
	50					55				60	Glu	Ile
Thr	Asn	Arg	Ala	Pro	Ser	Gly	Arg	Lys	Pro	Ser	Ala	Glu
65					70				75			80
His	Thr	Leu	Ile	Tyr	Arg	Leu	Phe	Pro	Glu	Ala	Asn	Ala
			85					90				95
Val	His	Thr	Val	Asn	Ala	Thr	Val	Leu	Ser	Arg	Leu	Val
			100					105				110
Glu	Leu	Lys	Ile	Thr	Gly	Phe	Glu	Met	Gln	Lys	Ser	Leu
		115					120					125
Thr	Thr	His	Arg	Asp	Thr	Val	Ala	Ile	Pro	Val	Phe	Asp
		130				135					140	Asn
Asp	Ile	Asp	Ala	Leu	Ala	Ser	Arg	Ile	Ala	His	Tyr	Ala
145					150				155			160
Pro	Leu	Asn	Tyr	Gly	Phe	Leu	Leu	Arg	Gly	His	Gly	Leu
			165					170				175
Gly	Arg	Asp	Val	Ala	Glu	Ala	Arg	Arg	His	Leu	Glu	Gly
			180					185				190
Leu	Phe	Glu	Cys	Glu	Met	Arg	Leu	Arg	Gln	Trp	Glu	Arg
		195					200					205

<210> 9563

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 9563

Cys	Leu	His	Val	Val	Asn	Ser	Leu	Leu	Arg	Cys	Cys	Ser	Thr	Leu	Cys
1				5				10						15	
Gln	Asp	Glu	Ile	Gln	Met	Tyr	Arg	Arg	Leu	His	Val	Leu	Ile	Ser	Lys
			20					25					30		
Thr	Glu	Glu	Gln	Ala	Met	Ser	Gln	Tyr	Arg	Thr	Phe	Thr	Ala	Gln	Asp
		35					40					45			
Ala	Val	Glu	Tyr	Ala	Arg	Gln	Phe	Gly	Gly	Leu	Asp	Asp	Pro	Ser	Ser
	50					55					60				
Leu	Val	Glu	Ala	Gln	Glu	Val	Gly	Asp	Gly	Asn	Leu	Asn	Leu	Val	Phe
65					70				75					80	
Lys	Ile	Phe	Asp	Ser	Ala	Gly	Val	Ser	Arg	Ile	Val	Val	Lys	Gln	Ala
			85					90					95		
Leu	Pro	Tyr	Val	Arg	Cys	Val	Gly	Glu	Ser	Trp	Pro	Leu	Thr	Leu	Asp
			100					105					110		
Arg	Ala	Arg	Leu	Glu	Ala	Gln	Thr	Leu	Val	Glu	His	Tyr	Gln	His	Ser
		115					120					125			
Pro	Gln	His	Thr	Val	Lys	Ile	His	His	Phe	Asp	Pro	Glu	Leu	Ala	Val
		130				135					140				
Met	Val	Met	Glu	Asp	Leu	Ser	Ser	His	Arg	Ile	Trp	Arg	Gly	Glu	Leu
145					150				155					160	
Ile	Arg	Asn	Asn	Tyr	Tyr	Pro	Gln	Ala	Ala	Arg	Gln	Leu	Gly	Glu	Tyr
			165					170					175		
Leu	Ala	His	Thr	Leu	Phe	His	Thr	Ser	Asp	Phe	Tyr	Leu	His	Pro	His
		180						185					190		
Glu	Lys	Lys	Ala	Gln	Val	Ala	Lys	Phe	Ile	Asn	Pro	Glu	Met	Cys	Glu
		195					200					205			
Ile	Thr	Glu	Asp	Leu	Phe	Phe	Asn	Asp	Pro	Tyr	Gln	Ile	His	Ala	Arg
		210				215					220				
Asn	Ser	Tyr	Pro	Ala	Glu	Leu	Glu	Asn	Asp	Val	Ala	Ala	Leu	Arg	Asp

225 230 235 240
 Asp Ala Gln Leu Lys Ile Ala Val Ala Ser Leu Lys His Arg Phe Phe
 245 250 255
 Ser His Ala Glu Ala Leu Leu His Gly Asp Ile His Ser Gly Ser Ile
 260 265 270
 Phe Val Ala Asp Gly Ser Leu Lys Ala Ile Asp Ala Glu Phe Gly Tyr
 275 280 285
 Phe Gly Pro Ile Gly Phe Asp Val Gly Thr Ala Ile Gly Asn Leu Leu
 290 295 300
 Leu Asn Phe Cys Gly Leu Pro Gly His Leu Gly Ile Arg Asp Ala Ala
 305 310 315 320
 Ala Ala Arg Glu Gln Arg Leu Thr Asp Ile Gln Glu Leu Trp Asn Thr
 325 330 335
 Phe Ala Glu Arg Phe Gln Val Leu Ala Asn Glu Lys Ala Arg Asp Ala
 340 345 350
 Ala Leu Ser Ala Pro Gly Tyr Ala Ser Ala Phe Leu Lys Lys Val Trp
 355 360 365
 His Asp Ala Ile Gly Phe Cys Gly Thr Glu Leu Ile Arg Arg Ser Val
 370 375 380
 Gly Leu Ser His Val Ala Asp Ile Asp Thr Ile Gln Asp Glu Ala Met
 385 390 395 400
 Arg His Glu Cys Leu Arg His Ala Ile Ser Leu Gly Lys Ala Leu Ile
 405 410 415
 Val Ile Ala Asp Arg Ile Asp Ser Ala Glu Glu Leu Val Ala Arg Val
 420 425 430
 Arg Gln Tyr Ser
 435

<210> 9564

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 9564

Arg Leu Leu Lys Lys Asp Asn Phe Met Ser Asn Thr Asp Ile Arg Val
 1 5 10 15
 Val Pro Gly Pro Ala Asn Tyr Phe Ser His Pro Gly Ser Leu Ala His
 20 25 30
 Leu Asp Asn Phe Phe Thr Pro Glu Gln Leu Ser Arg Ala Val Trp Ile
 35 40 45
 Tyr Gly Glu Arg Ala Ile Glu Gly Ala Arg Pro Tyr Leu Pro Gln Ser
 50 55 60
 Phe Asn Ala Thr Gly Ala Lys His Leu Leu Phe Lys Gly His Cys Ser
 65 70 75 80
 Glu Arg Asp Val Thr Arg Leu Val Asn Glu Ser Gly Ser Glu Thr Ser
 85 90 95
 Val Val Ile Gly Val Gly Gly Gly Ala Val Met Asp Thr Val Lys Ala
 100 105 110
 Val Ala Arg Arg Leu Gly Val Pro Phe Val Gly Ile Pro Thr Ile Ala
 115 120 125
 Ala Thr Cys Ala Ala Trp Thr Pro Leu Ser Val Trp Tyr Asn Asp Ala
 130 135 140
 Gly Gln Ala Leu Gln Phe Glu Ile Phe Asp Asp Ala Asn Phe Leu Val
 145 150 155 160
 Leu Val Glu Pro Gln Ile Ile Leu Asn Ala Pro Ala Glu Tyr Leu Leu
 165 170 175
 Ala Gly Ile Gly Asp Thr Leu Ala Lys Trp Tyr Glu Ala Ala Val Leu
 180 185 190
 Ala Pro Gln Pro Glu Ser Leu Pro Leu Thr Val Arg Leu Gly Leu Asn
 195 200 205
 Gly Ala Leu Ala Ile Arg Asp Val Leu Leu Glu Arg Ser Glu Glu Ala

210 215 220
 Leu Ala Asp Gln Gln Arg Gly Glu Gln Thr Gln Ala Phe Arg Asp Val
 225 230 240
 Val Asp Ala Ile Ile Ala Gly Gly Gly Met Val Gly Gly Leu Gly Glu
 245 250 255
 Arg Tyr Thr Arg Val Ala Ala Ala His Ala Val His Asn Gly Leu Thr
 260 265 270
 Val Leu Pro Gln Thr Glu Lys Tyr Leu His Gly Thr Lys Val Ala Tyr
 275 280 285
 Gly Ile Leu Val Gln Ser Ala Leu Leu Gly Gln Asp Asp Val Leu Ala
 290 295 300
 Gln Leu Val Ala Ala Tyr Arg Arg Phe Asn Leu Pro Ile Thr Leu Arg
 305 310 315
 Glu Leu Asp Val Asp Ile His Asn Arg Asp Glu Leu Asp Lys Val Ile
 325 330 335
 Gly His Thr Leu Arg Pro Val Glu Ser Ile His Tyr Leu Pro Val Thr
 340 345 350
 Leu Thr Pro Glu Val Leu Arg Ala Ala Phe Ala Lys Val Glu Ser Phe
 355 360 365
 Ser Arg
 370

<210> 9565

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 9565

Leu Arg Arg Arg Ala Ile Pro Asn Asp Asp Ser Leu His Ser Cys Asn
 1 5 10 15
 Glu Val Ile Met Gln Ile Asp Leu Ser Gly Lys Lys Ala Leu Val Thr
 20 25 30
 Gly Ala Ser Arg Gly Leu Gly Arg Ala Ile Ala Leu Ser Leu Ala Arg
 35 40 45
 Ala Gly Ala Asp Val Val Ile Thr Tyr Glu Lys Ser Val Asp Lys Ala
 50 55 60
 Gln Ala Val Ala Asp Glu Ile Lys Ala Leu Gly Arg His Gly Glu Ala
 65 70 75 80
 Ile Gln Ala Asp Ser Ala Ser Ala Gln Ala Ile Gln Asp Ala Val Thr
 85 90 95
 Gln Ala Ala Arg Ser Leu Gly Gly Leu Asp Ile Leu Val Asn Asn Ala
 100 105 110
 Gly Ile Ala Arg Gly Gly Pro Leu Glu Ser Met Thr Leu Ala Asp Ile
 115 120 125
 Asp Ala Leu Ile Asn Val Asn Ile Arg Gly Val Val Ile Ala Ile Gln
 130 135 140
 Glu Ala Leu Val His Met Ser Asp Gly Gly Arg Ile Ile Asn Ile Gly
 145 150 155 160
 Ser Cys Leu Ala Asn Arg Val Ala Gln Pro Gly Ile Ala Val Tyr Ser
 165 170 175
 Met Thr Lys Ser Ala Leu Asn Ser Leu Thr Arg Gly Leu Ala Arg Asp
 180 185 190
 Leu Gly Pro Arg Gly Ile Thr Val Asn Leu Val His Pro Gly Pro Thr
 195 200 205
 Asn Ser Asp Met Asn Pro Glu Asp Gly Glu Gln Ala Asp Ser Gln Arg
 210 215 220
 Gln Leu Ile Ala Leu Gly His Tyr Gly Gln Pro Glu Asp Ile Ala Ala
 225 230 235 240
 Ala Val Thr Phe Leu Ala Ser Pro Ala Ala Gly Gln Ile Ser Gly Thr
 245 250 255
 Gly Leu Asp Val Asp Gly Gly Leu Asn Ala

260

265

<210> 9566
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

<400> 9566

Lys	Phe	Gly	Ile	Tyr	Leu	Ile	Val	Leu	Leu	Phe	Pro	Tyr	Ile	Leu	Cys
1				5					10					15	
Gly	Arg	Thr	Val	Glu	Val	Arg	Met	Lys	Ile	Val	Trp	Ser	Lys	Thr	Ala
			20					25					30		
Glu	Lys	Gln	Phe	Ser	Lys	Ile	Asp	Pro	Arg	Tyr	Gln	Asn	Arg	Ile	Lys
		35					40					45			
Phe	Arg	Leu	Glu	Lys	Met	Asp	Asp	Lys	Thr	Ser	Pro	Val	Ala	Asp	Ile
	50					55					60				
Lys	Lys	Leu	Ser	Ser	Pro	Glu	Asn	His	Tyr	Arg	Leu	Arg	Leu	Gly	Asp
65					70				75					80	
Tyr	Arg	Val	Ile	Tyr	Thr	Phe	Gly	Asp	Pro	Pro	Gly	Asp	Ile	Cys	Tyr
				85					90					95	
Val	Val	Ala	Val	Lys	Arg	Arg	Thr	Thr	Thr	Thr	Tyr	Leu	His	Glu	Glu
			100					105					110		
His	Thr	Glu	Tyr	Asp	Tyr	Ser	Val	His	Gln	Gly					
		115					120								

<210> 9567
 <211> 297
 <212> PRT
 <213> Enterobacter cloacae

<400> 9567

Tyr	Pro	Lys	Ser	Ala	Cys	Gly	Arg	Phe	Leu	Cys	Phe	Asn	Asn	Pro	Gln
1				5					10					15	
Lys	Leu	Ile	Ala	Pro	Asn	Gln	Ser	Gly	Lys	Gln	Met	Phe	Arg	Lys	Asp
			20					25					30		
Ile	Val	Ile	Pro	Ser	Gly	Ala	Val	Ala	Leu	Ala	Leu	Cys	Val	Phe	Ser
		35					40					45			
Ile	Gln	Ala	Asp	Pro	Leu	Lys	Pro	Thr	Gln	Tyr	Gly	Asp	Phe	Asp	Arg
	50					55					60				
Tyr	Val	Leu	Ala	Leu	Ser	Trp	Gln	Thr	Gly	Phe	Cys	Gln	Ser	Met	Val
65				70					75					80	
Glu	Arg	Asn	Arg	Asp	Glu	Pro	Glu	Glu	Cys	Arg	Leu	Gln	Lys	Glu	Ser
				85				90						95	
Ser	Asn	Lys	Thr	Asp	Phe	Leu	Thr	Val	His	Gly	Leu	Trp	Pro	Ala	Leu
			100					105					110		
Pro	Lys	Ser	Ile	Ala	Ala	Arg	Gly	Val	Asp	Glu	Arg	Arg	Trp	Met	Arg
		115					120					125			
Phe	Gly	Cys	Ala	Thr	Arg	Pro	Val	Pro	Asn	Met	Pro	Glu	Ala	Lys	Ala
		130				135					140				
Ser	Arg	Lys	Cys	Asp	Ala	Ala	Glu	Thr	Gly	Leu	Ser	Leu	Thr	Gly	Ala
145				150					155					160	
Ala	Lys	Leu	Asn	Ser	Val	Met	Pro	Gly	Ala	Gly	Gly	Asn	Ser	Cys	Leu
				165				170						175	
Glu	Arg	Tyr	Glu	Tyr	Ala	Lys	His	Gly	Val	Cys	Phe	Gly	Phe	Asp	Pro
		180						185					190		
Asp	Ala	Tyr	Phe	Gly	Thr	Met	Val	Arg	Met	Asn	Gln	Glu	Val	Lys	His
		195					200					205			
Ser	Ala	Ala	Gly	Lys	Phe	Leu	Ala	Glu	Asn	Tyr	Gly	Lys	Ser	Val	Arg
		210				215					220				
Arg	Ser	Asp	Phe	Asp	Ala	Ala	Val	Ala	Lys	Ser	Trp	Gly	Lys	Gln	Ser
225					230				235					240	

Val	Lys	Ala	Phe	Lys	Leu	Thr	Cys	His	Gly	Asn	Pro	Ala	Tyr	Leu	Thr
				245					250					255	
Glu	Met	Gln	Ile	Ser	Leu	Asn	Ala	Ser	Thr	Ile	Asn	Asn	Pro	Leu	Ser
			260					265					270		
Ala	Gly	Ser	Phe	Ala	Pro	Gln	Pro	His	Pro	Gly	Asn	Cys	Gly	Lys	Gln
		275					280					285			
Phe	Val	Ile	Asp	Lys	Ala	Gly	Tyr								
	290					295									

<210> 9568

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 9568

Phe	Arg	Arg	Pro	Thr	Pro	Gly	Val	Leu	Leu	Gly	Tyr	Asp	Lys	Asp	Leu
1				5					10					15	
Ser	Cys	Arg	Arg	Ala	Lys	His	Ala	Ala	Gly	Gly	Thr	Pro	Leu	Tyr	Ala
			20					25					30		
Val	Tyr	Gln	Ile	Val	Leu	Ala	Ala	Gln	Gln	Ala	Ala	Ile	Asp	Ala	Ile
		35					40					45			
Arg	Pro	Gly	Val	Ser	Cys	His	Gln	Ile	Asp	Ser	Ala	Val	Arg	Ser	Val
	50					55					60				
Ile	Glu	Arg	Ala	Gly	Tyr	Gly	Pro	Gln	Phe	Gly	His	Asn	Thr	Gly	His
65					70					75					80
Ala	Ile	Gly	Ile	Asp	Val	His	Glu	Asn	Pro	Arg	Phe	Ser	Pro	Thr	Asp
				85					90					95	
Arg	Thr	Pro	Leu	Gln	Pro	Gly	Met	Val	Leu	Thr	Val	Glu	Pro	Gly	Ile
			100					105					110		
Tyr	Leu	Glu	His	Leu	Gly	Gly	Val	Arg	Ile	Glu	Asp	Val	Val	Leu	Val
		115					120					125			
Thr	Glu	Thr	Gly	Ala	Glu	Val	Leu	Tyr	Thr	Phe	Asp	Lys	Arg	Leu	Leu
	130					135					140				
Leu	Thr	Gly	Glu												
145															

<210> 9569

<211> 819

<212> PRT

<213> Enterobacter cloacae

<400> 9569

Arg	Thr	Ser	Asp	Ala	Asp	Leu	Thr	Arg	Pro	Gly	Gly	Ser	Met	Leu	Ser
1				5					10					15	
Ile	Glu	Phe	Phe	Cys	Pro	Leu	Pro	Asn	Gly	Leu	His	Ala	Arg	Pro	Ala
			20					25					30		
Trp	Ala	Leu	Lys	Glu	Gln	Cys	Ser	Ala	Trp	Arg	Ser	Asp	Ile	Arg	Phe
		35					40					45			
Ile	Asn	Arg	Arg	Leu	His	Thr	His	Ala	Asp	Ala	Lys	Ser	Ser	Leu	Ala
	50					55					60				
Leu	Ile	Ser	Thr	Gly	Thr	Leu	Phe	Asn	Asp	Ser	Cys	Val	Leu	Glu	Ile
65					70				75						80
Asn	Gly	Ser	Asp	Glu	Gln	Ala	Arg	Arg	Val	Leu	Glu	Ala	Tyr	Leu	
			85					90					95		
Thr	Gly	Ala	Phe	Ile	Asp	Ser	Asp	Ser	Ile	Pro	Ser	Gly	Asp	Ala	Pro
		100					105						110		
His	Val	Ala	His	Pro	Leu	Pro	Arg	Ser	Leu	Val	Arg	Leu	Ala	Pro	His
		115					120					125			
Leu	Gln	His	Gly	Ile	Thr	Leu	Ala	Ser	Gly	Ile	Gly	Ala	Gly	Thr	Leu
	130					135					140				
Arg	Gly	Trp	Gln	Ser	Asp	Asn	Leu	Lys	Arg	Tyr	Cys	Gln	Ile	Pro	Ala

145					150					155				160
Ser	Pro	Glu	Asp	Ile	Thr	Arg	Leu	Glu	His	Ser	Leu	Ala	Thr	Leu
				165					170					175
Glu	Gln	Leu	Asn	Tyr	Arg	Leu	Arg	Gly	Leu	Asp	Gly	Glu	Ser	Thr
			180					185					190	
Ile	Leu	Ser	Ala	His	Leu	Ser	Leu	Ile	Gln	Asp	Glu	Glu	Phe	Gly
		195					200				205			
Thr	Ile	Arg	Arg	Leu	Ile	Ala	Glu	Glu	Arg	Leu	Ser	Leu	Ala	Glu
	210				215					220				Ala
Ile	Ile	Arg	Asn	Met	Glu	Leu	Ile	Cys	Asp	Lys	Leu	Ser	Leu	Ser
225					230					235				240
Ser	Asp	Tyr	Leu	Arg	Glu	Arg	Val	Ser	Asp	Ile	Arg	Asp	Ile	Ser
				245					250					255
Gln	Leu	Leu	Asn	Ile	Thr	Trp	Pro	Glu	Leu	Gln	Gln	Thr	Ser	Ala
			260					265					270	Phe
Thr	Leu	Ser	Ala	Pro	Thr	Ile	Leu	Val	Ala	Glu	Asp	Leu	Thr	Pro
	275						280				285			Ser
Gln	Phe	Leu	Ser	Leu	Asp	Thr	Gln	Tyr	Leu	Lys	Gly	Met	Val	Leu
	290					295					300			Glu
Lys	Thr	Gly	Arg	Thr	Ser	His	Thr	Leu	Ile	Leu	Ala	Arg	Ala	Ala
305					310					315				320
Val	Pro	Val	Leu	Ser	Gly	Leu	Thr	Val	Ala	Ser	Leu	Ala	Pro	Leu
			325						330					335
Gly	Lys	Glu	Val	Ile	Leu	Asp	Gly	Ile	Cys	Ser	Val	Leu	Val	Val
		340					345						350	Glu
Pro	Asn	Asp	Ala	Val	Asn	Asp	Tyr	Tyr	Ser	Val	Ala	Gln	Arg	Leu
	355						360					365		Ala
Asp	Arg	Arg	His	Gln	Gln	Gln	Ile	Lys	Asp	Ala	Gly	Leu	Pro	Ala
	370				375					380				Leu
Thr	Arg	Asp	Asn	Val	Pro	Val	Glu	Ile	Ala	Ala	Asn	Ile	Gly	Ser
385					390				395					400
Leu	Glu	Ala	Pro	Gly	Ala	Phe	Thr	Cys	Gly	Ala	Gln	Gly	Ile	Gly
			405					410					415	Leu
Phe	Arg	Thr	Glu	Met	Leu	Tyr	Met	Asp	Arg	Asp	Thr	Ala	Pro	Asp
		420					425					430		Glu
Gln	Glu	Gln	Phe	Glu	Ala	Tyr	Gln	Gln	Val	Leu	Leu	Ser	Ala	Gln
	435						440				445			Gly
Lys	Pro	Val	Ile	Phe	Arg	Thr	Met	Asp	Ile	Gly	Gly	Asp	Lys	Gln
	450				455					460				Ile
Pro	Tyr	Leu	Asn	Ile	Pro	Gln	Glu	Glu	Asn	Pro	Phe	Leu	Gly	Tyr
465					470				475					Arg
Ala	Val	Arg	Ile	Tyr	Pro	Glu	Phe	Ala	Asp	Leu	Phe	Arg	Thr	Gln
			485					490						495
Arg.	Ala	Ile	Leu	Arg	Ala	Gly	Ala	Ser	Gly	Asn	Ala	Leu	Leu	Met
		500						505					510	Ile
Pro	Met	Val	His	Ser	Leu	Asp	Gln	Ile	Leu	Trp	Ile	Lys	Gln	Glu
	515						520					525		Leu
Gln	Asn	Val	Arg	Asp	Ala	Leu	Ala	Ser	Gln	Gly	Leu	Arg	His	Thr
	530				535					540				Ala
Arg	Leu	Pro	Leu	Gly	Ile	Met	Val	Glu	Val	Pro	Ser	Val	Cys	Phe
545				550					555					560
Ile	Asp	His	Phe	Cys	Glu	Glu	Val	Asp	Phe	Phe	Ser	Ile	Gly	Ser
			565					570					575	Asn
Asp	Met	Thr	Gln	Tyr	Leu	Tyr	Ala	Val	Asp	Arg	Asn	Asn	Pro	Arg
	580						585					590		Val
Ser	Gly	Leu	Tyr	Asn	Pro	Ile	Thr	Pro	Ser	Phe	Leu	Arg	Met	Val
	595						600				605			Arg
Gln	Ile	Val	Thr	Ala	Ala	His	Arg	His	Gly	Lys	Trp	Val	Gly	Ile
	610				615					620				Cys
Gly	Glu	Leu	Gly	Gly	Glu	Gln	Arg	Tyr	Leu	Pro	Leu	Leu	Leu	Gly
625					630				635					Leu

Gly Leu Asp Glu Phe Ser Met Ser Gly Pro Arg Ile Pro Ala Val Lys
 645 650 655
 Thr Gln Leu Arg Gln Leu Asp Met Ala Thr Cys Arg Ala Leu Ala Asp
 660 665 670
 Lys Ala Cys Asp Ser Arg Ser Ala Glu Glu Ile Glu Ala Leu Leu Ala
 675 680 685
 Asp Phe Thr Pro Glu Ala Pro Pro Arg Pro Leu Leu Ala Leu Glu Thr
 690 695 700
 Ile Val Val Asn Glu Pro Leu Thr Ser Lys Glu Gln Val Leu Gln Phe
 705 710 715 720
 Leu Cys Gly Asn Leu Ala Ile His Gly Arg Thr Gly Asn Pro Leu Glu
 725 730 735
 Leu Glu Glu Asp Leu Trp Gln Arg Glu Glu Ile Val Thr Thr Ala Val
 740 745 750
 Gly Phe Gly Val Ala Ile Pro His Thr Lys Ser Gln Trp Ile Arg His
 755 760 765
 Ser Ser Ile Ser Ile Ala Arg Leu Asp Lys Ala Ile Asp Trp Glu Ser
 770 775 780
 Asp Leu Gly Asp Val Glu Leu Val Ile Met Leu Thr Leu Gly Ala Gln
 785 790 795 800
 Glu Gly Ile Asn His Val Lys Val Phe Ser Pro Ala Gly Ala Glu Ala
 805 810 815
 Gly Gln

<210> 9570
 <211> 142
 <212> PRT
 <213> Enterobacter cloacae

<400> 9570
 Arg His Gly Val Lys Met Ser Arg Pro Thr Ile Ile Ile Asn Glu Leu
 1 5 10 15
 Asp Ala Glu Arg Ile Asp Arg Leu Leu Glu Lys Pro Glu Phe Ala Ser
 20 25 30
 Leu Pro Val Ala Asp Ala Leu Asn Glu Glu Leu Asp Arg Ala Gln Met
 35 40 45
 Cys Thr Pro Glu Thr Met Pro His Asp Val Val Thr Met Asn Ser Gln
 50 55 60
 Val Lys Phe Arg Asn Leu Thr Thr Gly Glu Glu Leu Thr Arg Thr Leu
 65 70 75 80
 Val Tyr Pro Ala Gln Met Thr Asp Ser Ser Thr Gln Leu Ser Val Leu
 85 90 95
 Ala Pro Val Gly Ala Ala Leu Leu Gly Leu Arg Thr Gly Asp Thr Ile
 100 105 110
 His Trp Glu Leu Pro Gly Gly Ala Ser Ala His Leu Glu Val Leu Glu
 115 120 125
 Leu Phe Tyr Gln Pro Glu Ala Ala Gly Asp Tyr Leu Arg
 130 135 140

<210> 9571
 <211> 228
 <212> PRT
 <213> Enterobacter cloacae

<400> 9571
 Thr Leu Ser Ala Leu Gln Arg Gln Ser Glu Ser Lys Thr Gln Gly Met
 1 5 10 15
 Gly Asp Phe Met Gln Gln Arg Ile Ile Thr Glu Met Glu Thr Tyr Leu
 20 25 30
 Gln Ala Leu Ser Glu Glu Glu Arg Ile Ala Ala Ile Asn Ala Phe Arg

35 40 45
 Gln Ala Leu His Glu Ile Ser Pro Phe Arg Asp Gln Pro Val Asp Cys
 50 55 60
 Val Leu Trp Ile Lys Lys Thr Asn Ile Thr Ala Asn Asp Tyr Asn Pro
 65 70 75 80
 Asn Asn Val Ala Pro Glu Lys Arg Leu Leu Ser Lys Ser Leu Glu
 85 90 95
 Leu Asp Gly Phe Thr Gln Pro Ile Val Val Thr Glu Asn Ala Pro Gln
 100 105 110
 His Tyr Glu Ile Val Asp Gly Phe His Arg His Asp Ile Gly Ser Asn
 115 120 125
 Arg Ala Ile Leu Lys Arg Gln Leu Lys Gly Tyr Leu Pro Val Thr Cys
 130 135 140
 Leu Arg Lys Ala Arg Gln Glu Lys Phe Asp Arg Met Ala Ala Thr Ile
 145 150 155 160
 Arg His Asn Arg Ala Arg Gly Arg His Gln Ile Asn Ala Met Ser Glu
 165 170 175
 Ile Val Arg Glu Leu Val Leu Met Gly Trp Ser Glu Gln Lys Ile Gly
 180 185 190
 Gln Glu Leu Gly Met Asp Ser Asp Glu Val Leu Arg Leu Lys Gln Ile
 195 200 205
 Asn Gly Leu Leu Glu Leu Phe Ala Asp Arg Arg Phe Ser Glu Ala Trp
 210 215 220
 Thr Val Lys
 225

<210> 9572

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 9572

Glu Ala Gln Leu Arg Gln Asn Arg His His Gln His Asp Asp His Asn
 1 5 10 15
 Gly Arg His Leu Pro Gln Gln Ala Glu Arg Arg Arg Asn Gly Pro Phe
 20 25 30
 Arg His Val Ala Ala Arg Gln His His Val Leu Ser Asn Arg Pro Ala
 35 40 45
 Val Ala Val Gly His Arg His Ala Leu Asp Asp Lys Gln Ala Gly Lys
 50 55 60
 Gly Arg Glu His Val Arg Asn Ala Gln Asp Asp Asp Gln Lys Arg Val
 65 70 75 80
 Lys Gln Ala Asp Gln Arg Thr Glu Arg Glu Ser Asp Tyr Asn Arg Leu
 85 90 95
 Gly Gly Ala Glu Ala Val Pro Asp Glu Glu Arg Asn His Gln Arg Val
 100 105 110
 Arg Gln Arg Arg Gly Gly Ser His Arg Glu Ile Glu Pro Ala Asp Gly
 115 120 125
 Gln Gly Asp Arg His Ala Asp Gly Asn His Arg His Asp Gly Asn Arg
 130 135 140
 Ala Gln Asn Val Asn Asp Val Val Arg Ile Glu Glu Ala Val Arg Arg
 145 150 155 160
 Gln Ala Lys Asn Gly His Gln Arg Asp Asp Gly Gln Gln His Ala Pro
 165 170 175
 Leu Val Glu Lys Ile Glu Asn Leu Leu Thr Ala Arg Arg Arg Ala
 180 185 190
 His

<210> 9573

<211> 277

<212> PRT

<213> Enterobacter cloacae

<400> 9573

Thr Met Glu Leu Leu Arg Arg Leu Arg Ala Trp Leu Ala Ala Glu Lys
 1 5 10 15
 Leu Asp Gly Val Leu Ile Ser Ser Arg Gln Asn Lys Gln Pro His Leu
 20 25 30
 Gly Ile Ser Thr Gly Ser Gly Tyr Val Leu Val Thr Gln Thr Ala Ala
 35 40 45
 His Ile Leu Val Asp Phe Arg Tyr Ser Asp Ile Ala Ser Arg Ala
 50 55 60
 Ala Gly Tyr Glu Met His Leu Leu Asn Thr Glu Asn Pro Phe Ala Gln
 65 70 75 80
 Ala Val Asn Gln Ile Ile Ala Lys Glu Ala Leu Thr Arg Leu Gly Phe
 85 90 95
 Glu Gly Glu Tyr Val Ser Trp Gln Thr Gly Val Leu Trp Arg Asp Thr
 100 105 110
 Leu Asn Thr Ala Leu Cys Ser Thr Ser Leu Asp Ala Leu Arg Gln Ile
 115 120 125
 Lys Thr Ala Asp Glu Ile Asp Arg Ile Arg Ala Ala Cys Gly Ile Ala
 130 135 140
 Asp Arg Ala Ala Gln His Ile Arg Arg Phe Ile Gln Pro Gly Met Arg
 145 150 155 160
 Glu Arg Glu Val Ala Ala Glu Leu Glu Trp Phe Met Lys Gln Glu Gly
 165 170 175
 Ala Asp Lys Pro Ser Phe Asp Thr Ile Val Ala Ser Gly Pro Arg Gly
 180 185 190
 Ala Leu Pro His Gly Lys Ala Ser Asp Lys Val Ile Met Pro Gly Glu
 195 200 205
 Met Ile Thr Leu Asp Phe Gly Ala Gln His Gln Gly Tyr Cys Ser Asp
 210 215 220
 Met Thr Arg Thr Phe Leu Val Ala Gly Gln Asn Thr Pro Pro Glu Glu
 225 230 235 240
 His Leu Ser Met Arg Cys Thr Arg Ser Phe Trp Arg His Asn Arg Gln
 245 250 255
 Leu Leu Met Pro Ser Ala Pro Ala Phe Pro Val Ile Arg Ser Ile Ala
 260 265 270
 Pro Tyr Val Pro
 275

<210> 9574

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 9574

Gln Gly Glu Thr Val Met Tyr Gln Thr Ile Ile Met Pro Val Asp Val
 1 5 10 15
 Phe Glu Met Glu Leu Ser Asp Lys Ala Ile Arg His Ala Glu Phe Leu
 20 25 30
 Ala Gln Gln Asp Gly Ile Ile His Leu Leu His Val Leu Pro Gly Ser
 35 40 45
 Ala Ser Leu Ser Leu His Arg Phe Ala Ala Asp Val Arg Arg Phe Glu
 50 55 60
 Glu His Leu Gln His Glu Ala Glu Thr Arg Leu Gln Thr Met Val Gly
 65 70 75 80
 His Phe Ser Ile Asp Pro Ser Arg Ile Lys Thr His Val Arg Phe Gly
 85 90 95
 Ser Val Arg Asp Ala Val Asn Glu Leu Ala Gly Glu Leu Asn Ala Asp
 100 105 110


```
<210> 9577
<211> 241
<212> PRT
<213> Enterobacter cloacae
```

<400> 9577																
Met	Arg	Asn	Ala	Phe	Thr	Thr	Met	Gly	Glu	Ser	Met	Ile	Arg	Ala	Ile	
1			5						10					15		
Val	Thr	Asp	Ile	Glu	Gly	Thr	Thr	Ser	Asp	Ile	Arg	Phe	Val	His	Asp	
		20						25					30			
Val	Leu	Phe	Pro	Tyr	Ala	Arg	Glu	Arg	Leu	Ala	Ala	Phe	Val	Thr	Ala	
		35					40					45				
Gln	Gln	Tyr	Ala	Glu	Pro	Val	Lys	Ser	Ile	Leu	Asp	Asn	Leu	Arg	Asp	
		50				55					60					
Glu	Ile	Ser	Ala	Pro	His	Ala	Ser	Val	Ser	Asp	Leu	Ile	Asn	Val	Leu	
65					70					75					80	
Phe	Thr	Phe	Met	Asp	Glu	Asp	Arg	Lys	Ser	Thr	Ala	Leu	Lys	Ala	Leu	
			85					90					95			
Gln	Gly	Ile	Ile	Trp	Gln	Asp	Gly	Tyr	Val	Asn	Gly	Asp	Phe	Thr	Gly	
			100					105					110			
His	Leu	Tyr	Pro	Asp	Val	Leu	Pro	Ala	Leu	Glu	Lys	Trp	Lys	Ala	Gln	
		115					120					125				
Gly	Ile	Asp	Leu	Tyr	Val	Tyr	Ser	Ser	Gly	Ser	Val	Ala	Ala	Gln	Lys	
		130				135					140					
Leu	Leu	Phe	Gly	Tyr	Ser	Asp	Glu	Gly	Asp	Ile	Thr	His	Leu	Phe	Ser	
145					150					155					160	
Gly	Tyr	Phe	Asp	Thr	His	Ile	Gly	Ala	Lys	Arg	Glu	Val	Gln	Ser	Tyr	
			165						170				175			
Gln	Asn	Ile	Ala	Ala	Gln	Thr	Gly	Ile	Ala	Pro	Ser	Gln	Ile	Leu	Phe	
			180					185					190			
Leu	Ser	Asp	Ile	His	Gln	Glu	Leu	Asp	Ala	Ala	Glu	Gln	Ala	Gly	Phe	
		195					200					205				
Arg	Thr	Leu	Gln	Leu	Ile	Arg	Gly	Glu	Asp	Asp	Gly	Ala	Ser	His	His	
	210					215					220					
His	Gln	Ile	His	Gln	Phe	Asp	Glu	Ile	Asn	Pro	Glu	Gln	Ile	Pro	Ser	

225

230

235

240

<210> 9578

<211> 176

<212> PRT

<213> *Enterobacter cloacae*

<400> 9578

Asn	Cys	Pro	Ser	Ala	Gly	Asp	Cys	Cys	Asp	Arg	Ala	Val	Pro	Gly	Ile
1				5					10					15	
Arg	Cys	Arg	Gln	Pro	Tyr	His	Leu	Ala	Gly	Tyr	Arg	Gly	Gly	Arg	Arg
			20					25					30		
Leu	His	Ala	Gly	Gly	Val	Met	Ile	Trp	Lys	Arg	His	Leu	Thr	Leu	Glu
		35					40					45			
Glu	Leu	Asn	Ala	Thr	Ser	Leu	Asn	Thr	Met	Val	Gly	His	Leu	Gly	Ile
	50					55					60				
Val	Tyr	Thr	Arg	Leu	Gly	Asp	Asp	Thr	Leu	Glu	Ala	Glu	Met	Pro	Val
65				70						75				80	
Asp	Ala	Arg	Thr	His	Gln	Pro	Phe	Gly	Leu	His	Gly	Gly	Ala	Ser	
			85					90					95		
Ala	Ala	Leu	Ala	Glu	Thr	Leu	Gly	Ser	Met	Ala	Gly	Phe	Leu	Met	Thr
			100					105					110		
Arg	Asp	Gly	Gln	Asn	Val	Val	Gly	Thr	Glu	Leu	Asn	Ala	Thr	His	His
			115				120					125			
Arg	Ala	Val	Ser	His	Gly	Lys	Val	Arg	Gly	Val	Cys	Gln	Pro	Leu	His
			130			135					140				
Leu	Gly	Arg	Ser	Ser	Gln	Ser	Trp	Glu	Ile	Val	Val	Phe	Asp	Glu	Gln
145					150					155					160
Gly	Arg	Arg	Cys	Cys	Thr	Cys	Arg	Leu	Ser	Thr	Met	Val	Leu	Gly	
				165					170					175	

<210> 9579

<211> 548

<212> PRT

<213> *Enterobacter cloacae*

<400> 9579

Gln	Ala	Leu	Thr	Arg	Cys	Tyr	Val	Trp	Thr	Ser	Gly	Trp	Leu	Ile	Ile
1				5					10					15	
Phe	Arg	Phe	Ile	Leu	Cys	Leu	Phe	Arg	Arg	Cys	Gln	Ser	Thr	Gly	Ala
			20					25					30		
Val	Lys	Asn	Ser	Leu	Asn	Gln	Lys	Ser	Asn	Glu	Gly	Phe	Thr	Arg	Met
		35					40					45			
Val	Ser	Ser	Arg	Leu	Glu	Met	Arg	Gly	Ile	Ser	Leu	Ala	Phe	Ser	Gly
		50				55					60				
Phe	Gln	Ala	Leu	Ser	Arg	Val	Asp	Phe	Thr	Leu	Asn	Gly	Gly	Ser	Val
65				70						75				80	
His	Ala	Leu	Thr	Gly	Ala	Asn	Gly	Ala	Gly	Lys	Ser	Thr	Leu	Met	Ala
			85					90					95		
Val	Leu	Cys	Gly	Thr	His	Asp	His	Tyr	Glu	Gly	Glu	Ile	Cys	Ile	Asn
			100					105					110		
Asn	Gln	Pro	Val	Ser	Ile	Arg	Glu	Pro	Leu	Asp	Ala	Lys	Arg	Leu	Gly
			115				120					125			
Ile	His	Leu	Val	Gln	Gln	Glu	Val	Asp	Val	Ala	Leu	Ile	Pro	Gly	Leu
			130			135					140				
Ser	Ile	Ala	Glu	Asn	Ile	Met	Leu	Asp	Gln	Leu	Ala	Gln	Pro	Gly	His
145					150					155					160
Arg	Tyr	Arg	Trp	Arg	Asp	Ile	Arg	Gln	Gln	Ala	Arg	Gln	Ala	Leu	Ala
				165					170					175	

Gln Leu Asp Val Ser Leu Asp Val Arg Arg Ser Ile Asp Gly Cys Thr
 180 185 190
 Leu Ala Glu Lys Gln Gln Ile Leu Leu Ala Arg Ala Leu Ser His His
 195 200 205
 Cys Arg Phe Leu Ile Leu Asp Glu Pro Thr Ala Pro Leu Asp Ala His
 210 215 220
 Glu Ser Glu Arg Leu Phe Ala Val Val Arg Arg Leu Gln Gln Gln Gly
 225 230 235 240
 Ile Gly Val Val Phe Ile Ser His Arg Ile His Glu Leu Lys Ala Ile
 245 250 255
 Cys Asp Thr Leu Thr Val Leu Arg Asp Gly Arg Leu Ile Glu Ser Gly
 260 265 270
 Pro Met Ala Asp Leu Ser Gly Glu Ala Ile Val Glu Lys Met Leu Gly
 275 280 285
 His Glu Leu Ser Asp Ile Tyr Pro Pro Pro Arg Pro Pro His Gly Asp
 290 295 300
 Glu Thr Leu Leu Arg Val Glu Gly Leu His Asp Asp Ala Leu Leu Lys
 305 310 315 320
 Asp Ile Ser Leu His Leu Arg Lys Gly Glu Ile Leu Gly Ile Ala Gly
 325 330 335
 Leu Ala Gly Ala Gly Lys Thr Glu Leu Cys Lys Ala Leu Phe Gly Ala
 340 345 350
 Ser Lys Ser Arg Val Ala Asn Gly Glu Leu Asn His Gln Asp Trp Lys
 355 360 365
 Pro Arg Asp Pro Ala Asp Ser Val Leu Arg Gly Leu Ala Leu Val Pro
 370 375 380
 Glu Glu Arg Arg Lys Glu Gly Ile Phe Ile Asp Glu Pro Val Ser Met
 385 390 395 400
 Asn Leu Ala Val Cys Ala Asp Asn Ser Phe Ser Arg Trp Ser Leu Phe
 405 410 415
 Gly His Arg Gln Ala Trp Arg Trp Ala Glu Glu Val Ile Ala Arg Val
 420 425 430
 Gly Val Arg Ala Arg Gly Pro Gly Gln Val Leu Arg Arg Leu Ser Gly
 435 440 445
 Gly Asn Gln Gln Lys Val Ala Ile Gly Lys Trp Leu Arg Asn Asp Ala
 450 455 460
 Ser Val Leu Ile Phe Asp Glu Pro Thr Lys Gly Val Asp Val Lys Ala
 465 470 475 480
 Lys Thr Asp Leu Phe Gln Leu Ile Asp Gly Leu Ala Arg Glu Gly Lys
 485 490 495
 Gly Val Ile Tyr Ala Ser Gly Glu Phe Ala Glu Leu Val Gly Leu Cys
 500 505 510
 Asp Arg Ile Cys Val Leu Trp Asp Gly Arg Ile Val Ala Glu Ile Ala
 515 520 525
 Gly Ala Glu Ala Arg Glu Glu Thr Leu Leu Tyr Tyr Ser Thr Gly Gly
 530 535 540
 Thr Ala Ser
 545

<210> 9580

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 9580

Lys Met Lys Lys Ile Ala Leu Ser Leu Val Ala Leu Gly Leu Phe Thr
 1 5 10 15
 Ala Leu Pro Gly Phe Ala Ala Thr Pro Ala Pro Leu Pro Ala Ala Ile
 20 25 30
 Ala Asn His Asp Gly Pro Ile Arg Ile Ala Val Ile Arg Asn Leu Gly
 35 40 45

Ser Asp Asp Asn Thr Thr Gln Phe Val Ala Gly Ala Ile Gln Glu Gly
 50 55 60
 Lys Lys Leu Gly Phe Lys Val Ser Thr Phe Leu Ser Asn Gly Asp Asp
 65 70 75 80
 Ala Lys Phe Gln Asp Phe Val Asn Gln Ala Ile Ser Gln Lys Tyr Asp
 85 90 95
 Gly Ile Ile Leu Ser Gln Gly Arg Asp Pro Tyr Ser Thr Ala Leu Val
 100 105 110
 Lys Lys Ala Val Asp Ala Gly Ile Lys Val Ala Val Phe Asp Thr Ala
 115 120 125
 Val Asn Gly Glu Ile Pro Gly Val Thr Val Thr Gln Gln Asp Asp Ala
 130 135 140
 Ser Leu Thr Asn Leu Ser Phe Gly Gln Leu Ala Lys Asp Phe Asn Gly
 145 150 155 160
 Lys Ala Asn Ile Val Lys Leu Trp Val Ala Gly Phe Pro Pro Met Glu
 165 170 175
 Arg Arg Gln Ala Ala Tyr Lys Glu Leu Gln Lys Gln Tyr Pro Glu Ile
 180 185 190
 Lys Glu Leu Glu Ser Ile Gly Ala Val Ser Ser Asp Val Gln Gly Asp
 195 200 205
 Thr Ala Asn Lys Val Gly Ala Ile Leu Ala Lys Tyr Pro Lys Gly Lys
 210 215 220
 Ile Asp Ala Ile Trp Gly Thr Trp Asp Ala Phe Ser Gln Gly Ala Tyr
 225 230 235 240
 Lys Ala Leu Lys Glu Asn Gly Arg Thr Glu Ile Lys Leu Tyr Ser Ile
 245 250 255
 Asp Ile Ser Asn Gln Asp Leu Gln Leu Met Arg Glu Pro Gly Ser Pro
 260 265 270
 Trp Lys Val Ser Val Ala Val Asp Pro Lys Leu Ile Gly Ala Thr Asn
 275 280 285
 Val Arg Leu Ile Ala Asn Lys Ile Ala Gly Glu Ala Thr Pro Ala Thr
 290 295 300
 Tyr Asp Phe Lys Ala Ala Ile Pro Gln Ala Leu Leu Thr Ala Gln
 305 310 315 320
 Pro Gly Ala Val Asn Val Ala Ser Leu Gly Lys Ile Ile Pro Gly Trp
 325 330 335
 Gly Gln Thr Glu Asp Phe Ile Ala Pro Trp Phe Ala Thr Leu Glu Ala
 340 345 350
 Lys Asn Lys
 355

<210> 9581

<211> 361

<212> PRT

<213> Enterobacter cloacae

<400> 9581

Thr Ser Ile His Leu Asp Phe Ile Leu Thr Gln Cys Ala Thr Thr Thr
 1 5 10 15
 Gln Gln Gly Ile Asn Asp Met Gln Thr Leu Gln Thr Thr Ser Leu Arg
 20 25 30
 Val Ala Asn Asn Gln Leu Phe Ile Leu Asp Gln Gln Ala Leu Pro Gln
 35 40 45
 Glu Lys Arg Trp Val Asp Ala Ser Thr Val Glu Ala Leu Val Gly His
 50 55 60
 Ile His Ala Leu Arg Val Arg Gly Ala Pro Leu Ile Gly Leu Ser Ala
 65 70 75 80
 Ser Leu Leu Leu Ala Leu Leu Ala Glu Asn Gly Lys Ser Arg Asp Glu
 85 90 95
 Leu Ala Val Ala Leu Glu Thr Leu Arg Ala Ser Arg Pro Thr Ala Val
 100 105 110

```

Asn Leu Met Asn Asn Leu Asp Arg Met Lys Leu Ala Leu Trp Glu Glu
    115                120                125
Asp Phe Val Pro Ala Leu Val Ala Glu Ala Leu Arg Leu Ile Asp Glu
    130                135                140
Asp Lys Arg Leu Cys Asp Ala Ile Ala Lys Ala Gly Ser Ala Leu Val
    145                150                155                160
Lys Pro Gly Ser Arg Leu Leu Thr His Cys Asn Thr Gly Gly Leu Ala
    165                170                175
Thr Ala Gly Val Gly Thr Ala Leu Gly Val Ile Ala Arg Ala His Lys
    180                185                190
Glu Gly Lys Val Ser Asn Val Trp Val Asp Glu Thr Arg Pro Leu Leu
    195                200                205
Gln Gly Gly Arg Leu Thr Ala Trp Glu Leu Gly Glu Leu Gly Val Pro
    210                215                220
Tyr Gln Leu Ile Thr Asp Ser Met Ala Ala Ser Leu Met Ala Lys Gly
    225                230                235                240
Gln Val Asp Ala Val Trp Val Gly Ala Asp Arg Ile Ala Ala Asn Gly
    245                250                255
Asp Val Ala Asn Lys Ile Gly Thr Tyr Ser Leu Ala Val Leu Ala Lys
    260                265                270
Phe His Gly Ile Pro Phe Tyr Val Ala Ala Pro Gln Thr Thr Leu Asp
    275                280                285
Pro Asp Cys Pro Asn Gly Asp Ala Ile Pro Ile Glu Gln Arg Ala Ala
    290                295                300
Ser Glu Val Thr Gly Val Ala Gly Ser Phe Gly Ala Val Gln Trp Ala
    305                310                315                320
Pro Gln Asn Ala Gln Val Tyr Asn Pro Ala Phe Asp Val Thr Pro Ala
    325                330                335
Ser Leu Ile Ser Gly Trp Val Leu Asp Thr Gly Val Val Thr Pro Asp
    340                345                350
Glu Val Ala Glu Gly Lys Phe Ala
    355                360

```

<210> 9582

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 9582

```

Pro Arg Trp Ile Lys Leu Val Thr Leu His Leu Asp Glu Asn Thr Glu
1      5      10      15
Glu Val Gln Met Ser Leu Ile Asn Thr Lys Ile Lys Pro Phe Lys Asn
    20      25      30
Gln Ala Phe Lys Asn Gly Glu Phe Ile Glu Val Thr Glu Lys Asp Ile
    35      40      45
Glu Gly Arg Trp Ser Val Phe Phe Tyr Pro Ala Asp Phe Thr Phe
    50      55      60
Val Cys Pro Thr Glu Leu Gly Asp Val Ala Asp His Tyr Glu Glu Leu
    65      70      75      80
Gln Lys Leu Gly Val Asp Val Tyr Ser Val Ser Thr Asp Thr His Phe
    85      90      95
Thr His Lys Ala Trp His Ser Ser Ser Glu Thr Ile Ala Lys Ile Lys
    100     105     110
Tyr Ala Met Ile Gly Asp Pro Thr Gly Ala Leu Thr Arg Asn Phe Asp
    115     120     125
Asn Met Arg Glu Asp Glu Gly Leu Ala Asp Arg Ala Thr Phe Val Val
    130     135     140
Asp Pro Gln Gly Ile Ile Gln Ala Ile Glu Val Thr Ala Glu Gly Ile
    145     150     155     160
Gly Arg Asp Ala Ser Asp Leu Leu Arg Lys Val Lys Ala Ala Gln Tyr
    165     170     175

```

Val	Ala	Ser	His	Pro	Gly	Glu	Val	Cys	Pro	Ala	Lys	Trp	Lys	Glu	Gly
			180					185					190		
Glu	Ala	Thr	Leu	Ala	Pro	Ser	Leu	Asp	Leu	Val	Gly	Lys	Ile		
		195					200					205			

<210> 9583

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 9583

Ile	Phe	Gly	Asn	Lys	Pro	Gly	Val	Pro	Ile	His	Ala	Glu	Arg	Lys	Phe
1			5					10					15		
Arg	Tyr	Ala	Gly	Lys	Thr	Glu	Pro	Gly	Gln	Cys	Ala	Leu	Gln	Pro	Gln
		20					25					30			
Arg	Arg	Glu	Ser	Asp	Met	Tyr	Phe	Tyr	Gln	Pro	Ser	Gln	Gly	His	Gly
		35				40					45				
Leu	Pro	His	Asp	Pro	Leu	Asn	Ala	Ile	Ile	Gly	Pro	Arg	Pro	Ile	Gly
	50				55					60					
Trp	Ile	Ser	Ser	Cys	Asp	Arg	Ala	Gly	Gln	Leu	Asn	Leu	Ala	Pro	Tyr
65				70					75					80	
Ser	Phe	Phe	Asn	Cys	Phe	Asn	Tyr	Arg	Pro	Pro	Ile	Ile	Gly	Phe	Ser
			85					90					95		
Ser	Asn	Gly	Trp	Lys	Asp	Ser	Val	Arg	Asn	Ile	Thr	Glu	Thr	Gly	Glu
		100					105					110			
Phe	Val	Trp	Asn	Leu	Ala	Thr	Arg	Asp	Leu	Ala	Glu	Ala	Met	Asn	Glu
		115				120					125				
Thr	Ser	Ala	Thr	Leu	Pro	His	Gly	Glu	Asp	Glu	Phe	Thr	Phe	Ala	Gly
	130				135					140					
Leu	Thr	Pro	Val	Ala	Ser	Gln	Leu	Val	Ser	Ser	Pro	Arg	Val	Ala	Glu
145				150					155					160	
Ser	Pro	Val	Asn	Phe	Glu	Cys	Arg	Leu	Ser	Gln	Cys	Ile	Gln	Leu	Thr
			165					170					175		
Gly	Ala	Asp	Gly	Thr	Pro	Ile	Asp	Thr	Trp	Leu	Val	Leu	Gly	Glu	Val
		180					185					190			
Val	Gly	Val	His	Ile	Ala	Glu	Ser	Leu	Leu	Glu	Glu	Gly	Ile	Tyr	Gln
	195						200					205			
Thr	Ala	Lys	Ala	Gln	Pro	Ile	Leu	Arg	Ala	Gly	Gly	Pro	Thr	Ala	Tyr
	210				215					220					
Tyr	Ala	Ile	Ser	Asp	Ser	His	Arg	Phe	Asp	Leu	Val	Arg	Pro	Asp	Ala
225					230				235					240	
Arg	Arg	Gly													

<210> 9584

<211> 532

<212> PRT

<213> Enterobacter cloacae

<400> 9584

Arg	Tyr	Gly	Trp	Arg	Asp	Val	Gln	Arg	Gly	Ser	Ala	Thr	Val	Pro	Val
1			5					10					15		
Lys	Thr	Ser	Gly	Gln	Gly	Leu	Arg	Arg	Arg	Cys	Phe	Pro	Leu	Tyr	Ala
		20					25					30			
Gly	Gly	Gly	Ser	Thr	Asp	Ala	Ala	Gln	Ala	Arg	Thr	His	Cys	Pro	Gly
		35				40					45				
Ala	Asn	Ala	Gly	Gly	Ala	Val	Ser	Gly	Cys	Ala	Asn	Gly	Val	Ala	Ala
	50				55					60					
Thr	Ala	Gly	Arg	Gly	Thr	Thr	Val	Ala	Ala	Ser	Thr	Ala	Gly	Gly	Thr
65				70					75					80	
Asp	Gly	Ala	Ile	Ser	Leu	Trp	Thr	Val	Gly	Ala	Ser	Gly	Pro	Ala	Gly

										85		90				95			
Gly	Ala	Ser	Trp	Arg	Thr	Gly	Tyr	Gly	Thr	Gly	Gly	Glu	Pro	Gly	Gly				
			100					105					110						
Ala	Arg	Asn	Gly	Ala	Asn	Leu	Gly	Cys	Arg	Glu	Leu	Ala	Asp	Pro	Ala				
		115					120					125							
Gly	Ala	Gly	Ala	Met	Lys	Lys	Thr	Thr	Leu	Met	Ala	Ile	Ala	Ile	Ala				
		130					135					140							
Ile	Ala	Ala	Ala	Gly	Gly	Tyr	Phe	Val	Gly	Gln	Lys	Gln	Thr	His	Gln				
145					150					155					160				
Pro	Ala	Ala	Ala	Ala	Gln	Pro	Ser	Glu	Arg	Lys	Val	Leu	Tyr	Trp	Tyr				
				165					170					175					
Asp	Pro	Met	Val	Pro	Gly	Gln	Arg	Phe	Asp	Lys	Pro	Gly	Lys	Ser	Pro				
		180						185					190						
Phe	Met	Asp	Met	Asp	Leu	Val	Pro	Arg	Tyr	Ala	Asp	Glu	Ala	Gln	Ala				
		195					200					205							
Ala	Ser	Gly	Val	Ala	Ile	Ser	Thr	Gln	Gln	Gln	Gln	Asn	Leu	Gly	Met				
		210					215					220							
Lys	Thr	Ala	Asn	Val	Glu	Met	Arg	Gln	Leu	Val	Ser	Pro	Phe	Ser	Ala				
225					230					235					240				
Phe	Ala	Thr	Val	Ala	Thr	Asp	Glu	Arg	Asn	Val	Ser	Val	Val	Ser	Ala				
				245					250					255					
Pro	Ala	Asn	Gly	Val	Val	Ser	Lys	Leu	Phe	Val	Asn	Ala	Pro	Gln	Gln				
			260					265					270						
Gln	Val	Lys	Ala	Gly	Glu	Ala	Leu	Ala	Gln	Leu	Trp	Ile	Pro	Gln	Trp				
		275					280					285							
Thr	Thr	Ala	Gln	Gln	Glu	Tyr	Leu	Ala	Val	Arg	Gln	Leu	Gly	Asp	Ala				
		290				295					300								
Ala	Leu	Thr	Arg	Ala	Ala	Arg	Glu	Arg	Leu	Ala	Leu	Gln	Phe	Met	Pro				
305					310					315					320				
Glu	Glu	Val	Ile	Arg	Leu	Leu	Glu	Arg	Ser	Gly	Lys	Pro	Gln	Thr	Thr				
				325					330					335					
Leu	Ile	Leu	Arg	Ala	Asp	Gln	Ala	Gly	Tyr	Val	Val	Lys	Leu	Asp	Val				
			340					345					350						
Arg	Glu	Gly	Ala	Gln	Ile	Thr	Ala	Thr	Ala	Pro	Leu	Phe	Glu	Ile	Ala				
		355					360					365							
Arg	Leu	Asp	Pro	Val	Trp	Leu	Val	Val	Asp	Tyr	Pro	Gln	Thr	Gln	Ala				
		370				375					380								
Gln	Ser	Leu	Ala	Val	Gly	Ser	Asn	Val	Val	Ala	Thr	Ser	Glu	Ser	Trp				
385					390					395					400				
Pro	Gly	Glu	Gln	Phe	His	Gly	Thr	Val	Ser	Glu	Leu	Leu	Pro	Gln	Met				
				405					410					415					
Glu	Thr	Thr	Thr	Arg	Thr	Leu	Lys	Ala	Arg	Ile	Val	Leu	Glu	Asn	Ser				
				420				425					430						
Ala	His	Lys	Leu	Lys	Pro	Gly	Met	Tyr	Leu	Ser	Val	Arg	Arg	Ala	Glu				
		435					440					445							
Glu	Met	Lys	Gly	Pro	Pro	Val	Leu	Ala	Val	Pro	Glu	Glu	Ala	Val	Ile				
		450				455					460								
Asn	Ser	Gly	Glu	Ser	Ala	Arg	Leu	Leu	Leu	Ala	Thr	Gly	Asp	Gly	Tyr				
465					470					475					480				
Phe	Arg	Pro	Val	Thr	Val	Thr	Thr	Gly	Leu	Thr	Ala	Gln	Gly	Trp	Thr				
				485					490					495					
Ala	Ile	Leu	Ser	Gly	Val	Lys	Gln	Gly	Asp	Lys	Val	Val	Thr	Ser	Gly				
			500					505					510						
Gln	Phe	Leu	Ile	Asp	Ser	Glu	Ala	Ser	Leu	Arg	Ser	Val	Met	Pro	Glu				
		515					520						525						
Val	Thr	Pro																	
		530																	

<210> 9585

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 9585

```

Ile Ser Gln Ala Gly Ala Arg Arg Gly Lys Tyr Gly Ala Asp Ala Gly
1      5      10      15
Asp Pro Arg Arg Cys Arg Ala Ala Arg Ala Ser Glu Gly Asp Asp Gly
20      25      30
Arg His Tyr Tyr Gly Arg Thr Ala Ala His His Val Gly Glu Trp Glu
35      40      45
Trp Leu Gly Gly Asp Ala Thr Tyr Cys Arg Ala Asp Asp Trp Trp His
50      55      60
Gly Asn Gly Thr Val Ile Val Asp Val Ser Tyr Ser Arg Thr Leu Gln
65      70      75      80
Ile Val Thr Ser Thr Leu Asn Met Ser Thr Ala Cys Ala Tyr Ser Gly
85      90      95
Met Gln Phe Met Tyr Pro Gln Ile Ile Pro Arg Asn Gly Met Val Ile
100     105     110
Arg Asn Asn Thr His Ala Val Lys Arg Ser Phe Lys Tyr Ser Val Leu
115     120     125
Arg Ser Ala Pro Asn Thr Lys Tyr Gly Asn Gly Ile Val Ile Val Arg
130     135     140
Ile Lys Phe Pro Leu Ile Leu Leu Phe Ile Ile Gly Gln Leu Ser Cys
145     150     155     160
Ala Phe Ala Val Asn Ala Asp Ser Asn Thr Ala Asp Lys Gly Trp Phe
165     170     175
Thr Thr Phe Thr Asp Asn Val Ala Gln Thr Trp Asn Glu Pro Glu His
180     185     190
Tyr Asp Leu Tyr Ile Pro Ala Ile Thr Trp His Ala Arg Phe Ala Tyr
195     200     205
Asp Lys Glu Lys Thr Asp Arg Tyr Asn Glu Arg Pro Trp Gly Ala Gly
210     215     220
Phe Gly Gln Ser Arg Trp Asp Glu Lys Gly Asn Trp His Gly Leu Tyr
225     230     235     240
Leu Met Ala Phe Lys Asp Ser Tyr Asn Lys Trp Glu Pro Ile Gly Gly
245     250     255
Tyr Gly Trp Glu Lys Thr Trp Arg Pro Leu Ser Asp Asp Asn Phe Arg
260     265     270
Leu Gly Leu Gly Tyr Thr Ala Gly Phe Thr Ala Arg Asp Asn Trp Lys
275     280     285
Tyr Ile Pro Val Pro Val Leu Leu Pro Leu Ala Ser Ile Gly Tyr Gly
290     295     300
Pro Ala Thr Phe Gln Met Thr Tyr Ile Pro Gly Thr Tyr Asn Asn Gly
305     310     315     320
Asn Val Tyr Phe Ala Trp Met Arg Phe Gln Phe
325     330

```

<210> 9586

<211> 436

<212> PRT

<213> Enterobacter cloacae

<400> 9586

```

Thr Leu Gly Leu Ser Ser Ile Arg Arg Gly Arg Phe Ala Arg Arg Trp
1      5      10      15
Thr Ala Gly Arg Cys Gly Ile Arg Leu Ala Asp Glu Asn Ile Asn Asp
20      25      30
Asn His Tyr Cys Phe Phe Tyr His Phe Lys Glu Asp Asp Met Asp Thr
35      40      45
Ser Leu Ala Glu Glu Val Gln His Thr Ala Thr Thr Leu Gln Ala Asp
50      55      60
Ser Phe Phe Phe Met Ser Pro Tyr Arg Ser Phe Thr Thr Ser Gly Cys

```

```

65          70          75          80
Phe Ala Arg Phe Ser Glu Pro Ala Val Gly Gly Asp Asp Pro Ala Gly
      85      90      95
Pro Phe Gln Gln Lys Leu Ala Gln Ala Phe Arg Asn Ala Lys Asn Ser
      100      105      110
Gly Ile Ala His Pro Val Met Val Gly Ala Ile Pro Phe Asp Thr Arg
      115      120      125
Lys Pro Ser Ser Leu Phe Ile Pro Gln Arg Trp Gln Thr Phe Ser Arg
      130      135      140
Pro Ala Arg Gln Gln Ser Ala Arg Tyr Ala Ser Gly Ala Gln Thr Leu
145      150      155      160
Asn Val Gln Gln Arg Thr Glu Ile Pro Pro Gln Pro Ile Phe Glu Glu
      165      170      175
Met Val Ala Arg Ala Ala Ser Leu Thr Ala Thr Pro Gln Val Asn Lys
      180      185      190
Val Val Leu Ser Arg Leu Ile Asp Ile Ala Thr Asp Lys Gln Ile Asp
      195      200      205
Ser Ser Ala Leu Met Glu Arg Leu Ile Ala Gln Asn Pro Ala Ser Phe
      210      215      220
Asn Phe His Val Pro Leu Glu Asp Gly Gly Val Leu Leu Gly Ala Ser
225      230      235      240
Pro Glu Leu Leu Leu Arg Lys Glu Gly Ala His Phe Ser Ser Leu Pro
      245      250      255
Leu Ala Gly Ser Ala Arg Arg Gln Pro Asp Asp Val Leu Asp Arg Glu
      260      265      270
Ala Gly Thr Lys Leu Leu Ala Ser Glu Lys Asp Arg His Glu His Asp
      275      280      285
Leu Val Thr Gln Ala Met Lys Thr Ile Leu Glu Pro Arg Ser His His
      290      295      300
Leu Ser Met Pro Ala Ser Pro Gln Leu Ile Thr Thr Pro Thr Leu Trp
305      310      315      320
His Leu Ala Thr Pro Val Glu Gly Asp Ala Arg Glu Asn Glu Asn Ala
      325      330      335
Leu Thr Leu Ala Cys Leu Leu His Pro Thr Pro Ala Leu Ser Gly Phe
      340      345      350
Pro His Gln Ala Ala Lys Glu Leu Ile Ala Glu Leu Glu Pro Phe Asp
      355      360      365
Arg Glu Leu Phe Gly Gly Ile Val Gly Trp Cys Asp Ser Glu Gly Asn
      370      375      380
Gly Glu Trp Val Val Thr Ile Arg Cys Ala Arg Leu His Gln Asn Thr
385      390      395      400
Val Arg Leu Phe Ala Gly Ala Gly Ile Val Pro Ala Ser Ser Pro Val
      405      410      415
Gly Glu Trp Arg Glu Thr Gly Val Lys Leu Ser Thr Met Leu Asn Val
      420      425      430
Phe Gly Leu His
      435

```

<210> 9587

<211> 540

<212> PRT

<213> Enterobacter cloacae

<400> 9587

```

Gly Ile Leu Met Thr Ile Pro Phe Thr Arg Trp Pro Glu Asp Phe Ala
1      5      10      15
Arg Arg Tyr Arg Glu Lys Gly Tyr Trp Gln Asp Leu Pro Leu Thr His
      20      25      30
Ile Leu Thr Asp His Ala Asp Ser Asp Ala Val Ala Ile Ile Asp Gly
      35      40      45
Asp Arg Arg Ile Thr Tyr Arg Ala Phe Asn Gln Ala Val Thr Asn Leu

```

50					55					60					
Ala	Ser	Ala	Leu	Gln	Ala	Gln	Gly	Leu	His	Arg	Gly	Glu	Thr	Ala	Leu
65					70					75					80
Val	Gln	Leu	Gly	Asn	Val	Ala	Glu	Phe	Tyr	Ile	Thr	Phe	Phe	Ala	Leu
				85					90					95	
Leu	Gln	Ile	Gly	Val	Ala	Pro	Val	Asn	Ala	Leu	Phe	Ser	His	Gln	Arg
			100					105					110		
Ser	Glu	Leu	Asn	Ala	Tyr	Ala	Glu	Gln	Ile	Lys	Pro	Ala	Val	Leu	Ile
			115					120				125			
Ala	Asp	Arg	Asp	His	Ala	Leu	Phe	Ser	Gly	Asp	Asp	Phe	Leu	Asn	Thr
			130				135					140			
Phe	Val	Asp	Ala	His	Arg	Ser	Val	Arg	Val	Val	Leu	Leu	Arg	Gly	Asp
					150					155				160	
Lys	Gly	Glu	His	Ala	Leu	Glu	Ala	Ala	Ile	Ser	Arg	Pro	Ala	Asp	Asn
				165					170					175	
Phe	Ile	Pro	Asn	Pro	Thr	Pro	Ala	Asp	Glu	Val	Ala	Phe	Phe	Gln	Leu
			180					185					190		
Ser	Gly	Gly	Ser	Thr	Gly	Thr	Pro	Lys	Leu	Ile	Pro	Arg	Thr	His	Asn
			195				200					205			
Asp	Tyr	Asp	Tyr	Ser	Ile	Arg	Arg	Ser	Asn	Glu	Ile	Cys	Gly	Ile	Thr
			210			215					220				
Ala	His	Thr	Arg	Tyr	Leu	Asn	Ala	Leu	Pro	Ala	Ala	His	Asn	Tyr	Ala
					230					235				240	
Met	Ser	Ser	Pro	Gly	Ser	Leu	Gly	Val	Phe	Thr	Ala	Gly	Gly	Cys	Val
				245					250					255	
Val	Leu	Ala	Asn	Asp	Pro	Ser	Ala	Thr	Leu	Cys	Phe	Pro	Leu	Ile	Glu
			260					265					270		
Gln	His	Gln	Ile	Asn	Val	Thr	Ser	Leu	Val	Pro	Pro	Ala	Val	Ser	Leu
			275				280					285			
Trp	Leu	Gln	Ala	Ile	Ala	Asp	Gly	Ala	Gly	Asn	Ala	Gln	Leu	Lys	Ser
					295						300				
Leu	Glu	Leu	Leu	Gln	Val	Gly	Gly	Ala	Arg	Leu	Ser	Ala	Thr	Leu	Ala
					310					315				320	
Ala	Arg	Ile	Pro	Ala	Glu	Ile	Gly	Cys	Gln	Leu	Gln	Gln	Val	Phe	Gly
				325					330					335	
Met	Ala	Glu	Gly	Leu	Val	Asn	Tyr	Thr	Ala	Leu	Asp	Asp	Ala	Pro	Glu
			340					345					350		
Arg	Ile	Ile	Asn	Thr	Gln	Gly	Arg	Pro	Met	Cys	Pro	Asp	Asp	Glu	Val
			355				360					365			
Trp	Val	Ala	Asp	Glu	Asp	Gly	Asn	Pro	Leu	Pro	Arg	Gly	Glu	Val	Gly
			370			375					380				
Arg	Leu	Met	Thr	Arg	Gly	Pro	Tyr	Thr	Phe	Arg	Gly	Tyr	Phe	Asn	Ser
					390					395				400	
Pro	Glu	His	Asn	Ala	Ser	Ala	Phe	Asp	Ala	Asn	Gly	Phe	Tyr	Cys	Ser
				405					410					415	
Gly	Asp	Leu	Ile	Ala	Ile	Asp	Glu	Gln	Gly	Tyr	Ile	Thr	Val	Gln	Gly
			420					425					430		
Arg	Glu	Lys	Asp	Gln	Ile	Asn	Arg	Gly	Gly	Glu	Lys	Ile	Ala	Ala	Glu
			435					440				445			
Glu	Ile	Glu	Asn	Leu	Leu	Leu	Arg	His	Asp	Ala	Val	Ile	His	Ala	Ala
			450			455					460				
Leu	Val	Ser	Met	Glu	Asp	Ser	Leu	Leu	Gly	Glu	Lys	Ser	Cys	Ala	Tyr
				470						475				480	
Leu	Val	Val	Lys	Gln	Pro	Leu	Arg	Ala	Val	Glu	Val	Arg	Arg	Phe	Leu
				485					490					495	
Arg	Glu	Gln	Gly	Val	Ala	Glu	Phe	Lys	Leu	Pro	Asp	Arg	Val	Glu	Ser
			500					505					510		
Val	Asp	Ala	Leu	Pro	Leu	Thr	Pro	Val	Gly	Lys	Val	Asp	Lys	Lys	Gln
			515				520					525			
Leu	Arg	Leu	Trp	Leu	Ala	Glu	Arg	Ala	Arg	Gly					
			530			535					540				

<210> 9588
 <211> 274
 <212> PRT
 <213> Enterobacter cloacae

<400> 9588

```

Phe Arg Asp Ala Gly Lys Lys Ser Asp Pro Arg Cys Leu Val Gly Ala
1          5          10          15
Ala Leu Pro Arg Gly Glu Val Met Ala Phe Asp Phe Thr Gly Lys Thr
20          25          30
Val Trp Val Thr Gly Ala Gly Lys Gly Ile Gly Tyr Ala Thr Ala Leu
35          40          45
Ala Phe Val Glu Ala Gly Ala Gln Val Thr Gly Phe Asp Leu Ala Phe
50          55          60
Pro His Gly Glu Tyr Pro Phe Ala Thr Glu Thr Leu Asp Val Ala Asp
65          70          75          80
Ala Ala Gln Ala Ser Asp Val Cys Gly Arg Leu Leu Ser Ser Leu Glu
85          90          95
Arg Leu Asp Val Leu Val Asn Ala Ala Gly Ile Leu Arg Met Gly Ala
100         105         110
Thr Asp Gln Leu Ser Pro Glu Asp Trp Gln Gln Thr Phe Ala Val Asn
115         120         125
Val Gly Gly Ala Phe Asn Leu Phe Gln Gln Thr Met Gly Gln Phe Arg
130         135         140
Arg Gln Gln Gly Gly Ala Ile Val Thr Val Ala Ser Asp Ala Ala His
145         150         155         160
Thr Pro Arg Ile Gly Met Ser Ala Tyr Gly Ala Ser Lys Ala Ala Leu
165         170         175
Lys Ser Leu Ala Leu Thr Val Gly Leu Glu Leu Ala Gly Ser Gly Val
180         185         190
Arg Cys Asn Leu Val Ser Pro Gly Ser Thr Asp Thr Asp Met Gln Arg
195         200         205
Thr Leu Trp Thr Ser Asp Asp Ala Glu Gln Arg Arg Ile Arg Gly Phe
210         215         220
Gly Glu Gln Phe Lys Leu Gly Ile Pro Leu Gly Lys Ile Ala Arg Pro
225         230         235         240
Gln Glu Ile Ala Ala Thr Val Leu Phe Leu Ala Ser Asp Ala Ala Ser
245         250         255
His Ile Thr Leu Gln Asp Ile Val Val Asp Gly Gly Ser Thr Leu Gly
260         265         270
Ala

```

<210> 9589
 <211> 366
 <212> PRT
 <213> Enterobacter cloacae

<400> 9589

```

Ile Ser Ser Val Asp Cys His Ser Ala Phe Ser Leu Pro Ala Arg Met
1          5          10          15
Gly His Arg Leu Ile Pro Gly Trp Cys Ser Ala Lys Ser Trp Ala Ser
20          25          30
Ile Ser Pro Arg Val Cys Trp Lys Arg Gly Phe Thr Arg Pro Arg Lys
35          40          45
Arg Ser Pro Phe Cys Val Arg Val Asp Arg Arg Pro Thr Met Pro Ser
50          55          60
Val Ile Ala Ile Ala Ser Thr Trp Tyr Ala Arg Met Arg Ala Gly Gly
65          70          75          80
Asn Met Arg Ala Thr Leu Leu Pro Ala Asp Gln Gln Phe Phe Ala Asp

```

```
<210> 9590
<211> 435
<212> PRT
<213> Enterobacter cloacae
```

<400>	9590															
Arg	Phe	Gln	Asp	Tyr	Leu	Ala	Asp	Ala	Ser	Thr	Leu	Ser	Glu	Val	Thr	
1				5					10					15		
Met	Lys	Gln	His	Thr	Leu	Ser	Leu	Trp	Leu	Gly	Gly	Val	Leu	Phe	Gly	
			20					25					30			
Leu	Leu	Thr	Ser	Ala	Ala	Gln	Ala	Glu	Pro	Trp	Thr	Leu	Glu	His	Thr	
			35				40					45				
Leu	Thr	Glu	Ala	Gln	Arg	Tyr	Ser	Ala	Glu	Leu	Ser	Ala	Ser	Arg	Asn	
			50			55					60					
Glu	Ala	Gln	Ala	Leu	Asp	Ala	Met	Ala	Val	Ser	Ala	Thr	Gln	Leu	Pro	
65					70					75					80	
Asp	Pro	Lys	Leu	Lys	Phe	Gly	Ile	Glu	Asn	Val	Pro	Val	Gln	Gly	Ser	
				85					90					95		
Asn	Asp	Arg	Arg	Leu	Thr	Arg	Glu	Gly	Met	Thr	Met	Gln	Lys	Val	Gly	
				100				105					110			
Ile	Met	Gln	Ser	Tyr	Val	Ser	Ser	Glu	Lys	Arg	Glu	Arg	Lys	Ala	Gln	
				115			120					125				
Thr	Leu	Gln	Ala	Gln	Ala	Arg	Ser	Val	Leu	Ala	Lys	Ser	Glu	Ala	Val	
						135					140					
Arg	Ala	Ala	Leu	Gln	Arg	Asp	Thr	Ala	Gln	Ala	Trp	Leu	Asp	Leu	Ala	

145 150 155 160
 Leu Ala Gln Gln Ala Leu Asn Thr Ala Arg Thr Leu Val Arg Glu Thr
 165 170 175
 Glu Arg Gln Arg Gly Val Gln Lys Ala Ser Val Gly Ala Gly Ser Ala
 180 185 190
 Met Pro Asp Ser Val Leu Ala Leu Gln Met Ile Leu Ser Ala Met Arg
 195 200 205
 Asp Lys Glu Thr Leu Ala Gln Arg Asp Val Gln Leu Ala Gln Ser Arg
 210 215 220
 Leu Leu Glu Leu Thr Gly His Ala Ile Thr Glu Val Arg Gly Pro Leu
 225 230 235 240
 Pro Arg Tyr Gln Arg Leu Pro Ala Asn Glu Lys Thr Leu Gln Glu Gly
 245 250 255
 Ile Val Arg His Pro Glu Val Glu Ala Ala Arg Arg Glu Ala Glu Thr
 260 265 270
 Ala Lys Ala Arg Ser Ala Gln Ser Ala Val Ala Ala Ile Pro Asp Val
 275 280 285
 Asp Val Glu Val Tyr Tyr Ala His Arg Ala Glu Gly Tyr Asp Asp Met
 290 295 300
 Ala Gly Val Met Phe Ser Val Asp Leu Pro Leu Phe Gln Ser Lys Arg
 305 310 315 320
 Gln Asp Lys Asp Tyr Ala Ala Asp Val Ser Arg Ser Met Gln Ala Ala
 325 330 335
 Asp Gln Leu Thr Leu Lys Arg Glu His Ile Ala Gln Val Gln Thr
 340 345 350
 Leu Val Ala Gln Tyr Gln Ala Ala Gln Thr Val Trp Gln Arg Gln Arg
 355 360 365
 Asp Glu Val Leu Pro Leu Gln Arg Gln Arg Leu Ala Val Leu Thr Ala
 370 375 380
 Gln Tyr Arg Ser Gly Gln Ser Ala Leu Pro Ala Leu Leu Glu Ala Arg
 385 390 395 400
 Arg Gly Val Leu Asp Thr Glu Leu Ala Val Asn Gln Ala Glu Arg Glu
 405 410 415
 Met Ala Arg Thr Trp Ala Ala Val Asn Trp Leu Ile Pro Gln Glu Leu
 420 425 430
 Ala Gln
 435

<210> 9591

<211> 708

<212> PRT

<213> Enterobacter cloacae

<400> 9591

Gly Leu Gly Gln Asn Ala Asp Ala Gln Ala Ala Arg Arg Val Cys Arg
 1 5 10 15
 Gly Gly Thr Gly Val Cys Ala Val Pro Val Pro Pro Ala Leu Arg Ala
 20 25 30
 Gly Gly Asp Gly Leu Ser Ala Ala Gly Asp Pro Arg Gly Phe Cys Gly
 35 40 45
 Asp Ala Leu Ser Gly His Asn Ala Asn Met Met Ser Leu Gly Gly Ile
 50 55 60
 Ala Ile Ala Ile Gly Ala Met Val Asp Ala Ala Ile Val Met Ile Glu
 65 70 75 80
 Asn Met His Lys Val Leu Glu Leu Trp Arg His Asp Asn Pro Gly Lys
 85 90 95
 Glu Pro Ala Pro Gly Glu Tyr Trp Arg Leu Ala Glu Lys Ala Ala Val
 100 105 110
 Glu Val Gly Pro Ala Leu Phe Cys Ser Leu Leu Ile Ile Thr Leu Ser
 115 120 125
 Phe Ile Pro Val Phe Ser Leu Glu Ala Gln Glu Gly Arg Met Phe Ser

130	135	140
Pro Leu Ala Phe Thr Lys	Thr Trp Ser Met Ala Val Ala Ala Gly Leu	
145	150	155
Gly Ile Thr Leu Val Pro	Val Leu Met Gly Phe Phe Ile Arg Gly Lys	160
	165	170
Ile Pro Asp Glu Lys Ala Asn Pro	Ile Asn Arg Leu Leu Ile Arg Leu	175
	180	185
Tyr Glu Pro Leu Leu Asp Lys Val Leu Thr Phe Pro	Lys Thr Thr Leu	190
	195	200
Ala Leu Ala Cys Leu Leu Leu Ile Ala Thr Leu Trp	Pro Leu Ser Arg	205
	210	215
Leu Gly Ser Glu Phe Met Pro Pro Leu Asp Glu Gly	Asp Leu Leu Tyr	220
225	230	235
Met Pro Ser Thr Leu Pro Gly Ile Ser Ala Arg	Glu Ala Ser Arg Leu	240
	245	250
Leu Gln Gln Thr Asp Arg Leu Ile Lys Ser Val Pro	Glu Val Ala Ser	255
	260	265
Val Phe Gly Lys Ala Gly Arg Ala Glu Ser Ala Thr	Asp Pro Ala Pro	270
	275	280
Leu Thr Met Leu Glu Thr Thr Ile His Phe Lys Pro	Arg Glu Gln Trp	285
	290	295
Arg Pro Gly Met Thr Pro Gln Lys Leu Val Glu Glu	Leu Asp Lys Thr	300
305	310	315
Val Ser Leu Pro Gly Ile Ala Asn Val Trp Val Pro	Pro Val Arg Asn	320
	325	330
Arg Leu Asp Met Leu Ala Thr Gly Ile Lys Ser Pro	Val Gly Ile Lys	335
	340	345
Val Asn Gly Asn Asn Ile Ala Asp Ile Glu Arg Val	Ala Arg Gln Ile	350
	355	360
Glu Gln Val Val Lys Asp Val Pro Gly Val Ser Ser	Ala Leu Ala Glu	365
	370	375
Arg Leu Glu Gly Gly Arg Tyr Val Asp Ile Arg Ile	Asp Arg Gln Lys	380
385	390	395
Ala Ala Arg Tyr Gly Val Ser Val Asp Glu Leu Gln	Ser Leu Val Ser	400
	405	410
Thr Leu Val Gly Gly Asp Asn Ile Gly Glu Val Ile	Gln Gly Arg Glu	415
	420	425
Arg Tyr Pro Ile Asn Leu Arg Tyr Pro Arg Asp Leu	Arg Asp Asn Val	430
	435	440
Asp Ala Leu Arg Val Leu Pro Val Val Thr Ala Ser	Gly Ser Gln Val	445
	450	455
Ala Leu Gly Glu Leu Ala Asp Ile Val Val Thr Glu	Gly Pro Pro Met	460
465	470	475
Leu Lys Ser Glu Asn Ala Arg Leu Ser Ser Trp Ile	Tyr Val Asp Leu	480
	485	490
Arg Gly Arg Asp Leu Lys Ser Ala Val Asp Glu Met	Gln Lys Arg Val	495
	500	505
Glu Glu Lys Val Val Leu Pro Gln Gly Val Ser Leu	Ser Trp Ser Gly	510
	515	520
Gln Phe Glu Tyr Leu Glu Arg Ala Thr Ala Arg Leu	Lys Ile Val Leu	525
	530	535
Pro Val Thr Leu Met Ile Ile Phe Val Leu Leu Trp	Leu Thr Phe Arg	540
545	550	555
Arg Ile Ser Asn Val Leu Ile Ile Met Gly Ala Leu	Pro Phe Ala Leu	560
	565	570
Ile Gly Gly Val Trp Leu Leu Trp Leu Leu Glu Tyr	Asn Leu Ser Val	575
	580	585
Ala Gly Ala Val Gly Phe Ile Ala Leu Ser Gly Val	Ala Ala Glu Phe	590
	595	600
Gly Val Ile Met Val Leu Tyr Leu Asn His Ala Ile	Asp Lys Tyr His	605
610	615	620

Arg Leu Glu Pro Glu Gly Gly Asn Thr Val Leu Met Arg Ala Ile His
 625 630 635 640
 Glu Gly Ala Val Leu Arg Val Arg Pro Lys Val Met Thr Val Ala Thr
 645 650 655
 Ile Met Ala Gly Leu Leu Pro Ile Met Trp Gly Ser Gly Ser Gly Ser
 660 665 670
 Glu Val Met Gln Arg Ile Ala Ala Pro Met Ile Gly Gly Met Val Thr
 675 680 685
 Ala Pro Leu Leu Ser Met Leu Val Ile Pro Ala Leu Tyr Lys Leu Leu
 690 695 700
 His Gln Arg
 705

<210> 9592

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 9592

Asn Ser Pro Cys Ala Arg Trp Arg Cys Asp Ala Ser Cys Ala Ser Arg
 1 5 10 15
 Ala Leu Pro Asn Leu Ser Cys Arg Thr Ala Trp Arg Ala Trp Met Arg
 20 25 30
 Phe Arg Ser Arg Arg Ser Ala Lys Leu Ile Arg Asn Ser Cys Ala Cys
 35 40 45
 Gly Leu Leu Asn Ala Pro Gly Ala Glu Glu Gln Arg Met Ala Ile Pro
 50 55 60
 Lys Leu Thr Ala Tyr Ala Leu Pro Thr Ala Ala Glu Leu Pro Thr Ser
 65 70 75 80
 Lys Val Asn Trp Ala Phe Glu Pro Glu Arg Ala Ala Leu Leu Ile His
 85 90 95
 Asp Met Gln Glu Tyr Phe Leu Asn Phe Trp Gly Glu Asn Ser Asp Met
 100 105 110
 Met Gln Gln Val Val Ala Asn Ile Ala Lys Leu Arg Ala Tyr Cys Lys
 115 120 125
 Glu His Asn Ile Pro Val Tyr Tyr Thr Ala Gln Pro Lys Asp Gln Ser
 130 135 140
 Asp Glu Asp Arg Ala Leu Leu Asn Asp Met Trp Gly Pro Gly Leu Thr
 145 150 155 160
 Arg Ser Pro Glu Gln Arg Ile Val Ala Glu Leu Thr Pro Asp Glu
 165 170 175
 Ala Asp Thr Val Leu Val Lys Trp Arg Tyr Ser Ala Phe His Arg Ser
 180 185 190
 Pro Leu Glu Gln Met Leu Lys Glu Thr Gly Arg Asn Gln Leu Leu Ile
 195 200 205
 Thr Gly Val Tyr Ala His Ile Gly Cys Met Thr Thr Ala Thr Asp Ala
 210 215 220
 Phe Met Arg Asp Ile Lys Pro Phe Phe Ile Ala Asp Ala Leu Ala Asp
 225 230 235 240
 Phe Thr Arg Asp Glu His Leu Met Ser Leu Lys Tyr Val Ala Gly Arg
 245 250 255
 Ser Gly Arg Val Val Met Thr Asp Glu Leu Leu Pro Ser Val Pro Ala
 260 265 270
 Thr Lys Ala Ala Leu Arg Glu Leu Ile Leu Pro Leu Leu Asp Glu Ser
 275 280 285
 Asp Glu Pro Met Asp Asp Glu Asn Leu Ile Asp Tyr Gly Leu Asp Ser
 290 295 300
 Val Arg Met Met Ala Leu Ala Ala Arg Trp Arg Lys Val His Gly Asp
 305 310 315 320
 Ile Asp Phe Val Met Leu Ala Lys Asn Pro Thr Leu Asp Ala Trp Trp
 325 330 335

Ala Leu Leu Ser Arg Glu Val Lys
340 345

<210> 9593

<211> 713

<212> PRT

<213> *Enterobacter cloacae*

<400> 9593

His	Leu	Thr	Val	Ser	Gln	Gln	Arg	Thr	Thr	Thr	Met	Asn	Asn	Ser	Gly
1				5					10					15	
Lys	Tyr	Leu	Thr	Trp	Ala	Val	Leu	Ser	Val	Val	Gly	Ala	Phe	Ala	Leu
		20						25				30			
Gly	Tyr	Ile	Ala	Leu	Asn	Arg	Gly	Glu	Gln	Ile	Asn	Ala	Leu	Trp	Ile
		35					40					45			
Val	Val	Ala	Ser	Val	Cys	Ile	Tyr	Leu	Ile	Ala	Tyr	Arg	Phe	Tyr	Gly
		50				55					60				
Arg	Tyr	Ile	Ala	Lys	Thr	Val	Leu	Gly	Val	Asp	Gly	Thr	Arg	Met	Thr
65					70					75				80	
Pro	Ala	Val	Arg	His	Asn	Asp	Gly	Leu	Asp	Tyr	Val	Pro	Thr	Asp	Lys
				85					90					95	
Lys	Val	Leu	Phe	Gly	His	His	Phe	Ala	Ala	Ile	Ala	Gly	Ala	Gly	Pro
			100					105					110		
Leu	Val	Gly	Pro	Val	Leu	Ala	Ala	Gln	Met	Gly	Tyr	Leu	Pro	Gly	Met
		115					120						125		
Ile	Trp	Ile	Leu	Ala	Gly	Val	Val	Leu	Ala	Gly	Ala	Val	Gln	Asp	Phe
		130					135					140			
Met	Val	Leu	Phe	Val	Ser	Thr	Arg	Arg	Asp	Gly	Arg	Ser	Leu	Gly	Glu
145					150					155					160
Leu	Val	Lys	Glu	Glu	Met	Gly	Ala	Thr	Ala	Gly	Val	Ile	Ala	Leu	Val
				165					170					175	
Ala	Thr	Phe	Met	Ile	Met	Val	Ile	Ile	Leu	Ala	Val	Leu	Ala	Met	Ile
			180					185					190		
Val	Val	Lys	Ala	Leu	Thr	His	Ser	Pro	Trp	Gly	Thr	Tyr	Thr	Val	Ala
		195					200					205			
Phe	Thr	Ile	Pro	Leu	Ala	Leu	Phe	Met	Gly	Ile	Tyr	Ile	Arg	Tyr	Leu
		210					215				220				
Arg	Pro	Gly	Arg	Ile	Gly	Glu	Val	Ser	Val	Ile	Gly	Leu	Val	Phe	Leu
225					230					235					240
Val	Phe	Ala	Ile	Ile	Ser	Gly	Gly	Trp	Val	Ala	Glu	Ser	Pro	Thr	Trp
				245					250					255	
Ala	Pro	Phe	Phe	Asp	Phe	Thr	Gly	Val	Gln	Leu	Thr	Trp	Met	Leu	Val
			260					265					270		
Gly	Tyr	Gly	Phe	Val	Ala	Ala	Val	Leu	Pro	Val	Trp	Leu	Leu	Leu	Ala
		275					280					285			
Pro	Arg	Asp	Tyr	Leu	Ser	Thr	Phe	Leu	Lys	Ile	Gly	Thr	Ile	Val	Gly
		290				295					300				
Leu	Ala	Ile	Gly	Ile	Leu	Ile	Met	Arg	Pro	Thr	Leu	Thr	Met	Pro	Ala
305					310					315				320	
Leu	Thr	Lys	Phe	Ile	Asp	Gly	Thr	Gly	Pro	Val	Trp	Thr	Gly	Asn	Leu
				325					330					335	
Phe	Pro	Phe	Leu	Phe	Ile	Thr	Ile	Ala	Cys	Gly	Ala	Val	Ser	Gly	Phe
			340					345					350		
His	Ala	Leu	Ile	Ala	Ser	Gly	Thr	Thr	Pro	Lys	Met	Leu	Ala	Asn	Glu
		355					360					365			
Asn	Gln	Ala	Cys	Leu	Ile	Gly	Tyr	Gly	Gly	Met	Leu	Met	Glu	Ser	Phe
		370				375					380				
Val	Ala	Ile	Met	Ala	Leu	Val	Ser	Ala	Cys	Ile	Ile	Asp	Pro	Gly	Val
385					390					395				400	
Tyr	Phe	Ala	Met	Asn	Ser	Pro	Met	Ala	Val	Leu	Ala	Pro	Ala	Gly	Thr
				405					410					415	

Val Asp Val Val Ala Ser Ala Ala Gln Val Val Ser Gly Trp Gly Phe
 420 425 430
 Ala Ile Thr Pro Glu Thr Leu Thr His Ile Ala Asn Glu Val Gly Glu
 435 440 445
 Gln Ser Ile Ile Ser Arg Ala Gly Gly Ala Pro Thr Leu Ala Val Gly
 450 455 460
 Met Ala Tyr Ile Leu His Gly Ala Leu Gly Gly Leu Met Asp Val Ser
 465 470 475 480
 Phe Trp Tyr His Phe Ala Ile Leu Phe Glu Ala Leu Phe Ile Leu Thr
 485 490 495
 Ala Val Asp Ala Gly Thr Arg Ala Ala Arg Phe Met Leu Gln Asp Leu
 500 505 510
 Leu Gly Val Ile Ser Pro Asn Leu Lys Arg Thr Asp Ser Leu Pro Ala
 515 520 525
 Asn Leu Leu Ala Thr Ala Leu Cys Val Leu Ala Trp Gly Tyr Phe Leu
 530 535 540
 His Gln Gly Val Val Asp Pro Leu Gly Gly Ile Asn Thr Leu Trp Pro
 545 550 555 560
 Leu Phe Gly Ile Ala Asn Gln Met Leu Ala Gly Met Ala Leu Met Leu
 565 570 575
 Cys Ala Val Val Leu Phe Lys Met Lys Arg Gln Arg Tyr Ala Trp Val
 580 585 590
 Ala Leu Val Pro Thr Ala Trp Leu Leu Ile Cys Thr Leu Thr Ala Gly
 595 600 605
 Trp Gln Lys Ala Phe Ser Pro Asp Asn Lys Val Gly Phe Leu Ala Ile
 610 615 620
 Ala Asn Lys Phe Gln Ala Met Ile Asp Ser Gly Lys Ile Pro Ala Gln
 625 630 635 640
 Tyr Thr Glu Ser Gln Leu Ser Gln Leu Val Phe Asn Asn Arg Leu Asp
 645 650 655
 Ala Gly Leu Thr Ile Phe Phe Met Val Val Val Val Leu Ala Leu
 660 665 670
 Tyr Ser Leu Lys Thr Ala Leu Ala Leu Lys Val Asp Lys Pro Thr
 675 680 685
 Ala Lys Glu Thr Pro Tyr Glu Pro Met Pro Glu Asn Leu Asp Glu Ile
 690 695 700
 Val Thr Gln Ala Lys Gly Ala His
 705 710

<210> 9594

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 9594

His Tyr Gln Thr Pro Ser Pro Gln Pro Ser Pro Gln Arg Gly Glu Gly
 1 5 10 15
 Val Lys Val Pro Ser Pro Leu Trp Gly Glu Gly Gln Gly Glu Gly Asn
 20 25 30
 Thr Asn Glu Lys Leu Ile Met Phe Asp Thr Leu Ser Lys Ala Gly Lys
 35 40 45
 Tyr Leu Gly Gln Ala Ala Lys Met Met Ile Gly Val Pro Asp Tyr Asp
 50 55 60
 Asn Tyr Val Glu His Met Arg Val Asn His Pro Asp Gln Thr Pro Met
 65 70 75 80
 Thr Tyr Glu Glu Phe Arg Asp Arg Gln Asp Ala Arg Tyr Gly Gly
 85 90 95
 Lys Gly Gly Ala Lys Cys Cys
 100

<210> 9595

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 9595

Arg Asp Thr Thr Leu Phe Asn Arg Arg Asn Gly Val Val Ser Lys
 1 5 10 15
 Ala Leu Ser Val Ser Ala Ala Ala Ser Gly Arg Gln Gln Ile Phe Asp
 20 25 30
 Phe Leu Tyr Lys Trp Gly Met Leu Thr Val Val Ala Leu Val Ala
 35 40 45
 Val Phe Gly Leu Ala Ser Asp Ser Phe Leu Asp Pro Asn Asn Ile Ile
 50 55 60
 Asn Ile Leu Arg Ser Ile Ala Ile Val Thr Val Ile Ala Ile Gly Val
 65 70 75 80
 Ser Ile Ser Leu Thr Val Gly Gly Phe Asp Leu Ser Val Gly Ser Thr
 85 90 95
 Ala Ser Leu Ala Asn Ala Leu Val Ile Ser Leu Phe Val Trp His Gly
 100 105 110
 Phe Gly Thr Thr Glu Ser Ile Val Ile Thr Leu Ala Leu Cys Thr Leu
 115 120 125
 Val Gly Leu Phe Asn Ala Phe Leu Ile Val Ile Leu Arg Ile Pro Asp
 130 135 140
 Met Leu Ala Thr Leu Ala Ser Leu Phe Val Ile Gln Gly Val Ala Met
 145 150 155 160
 Thr Tyr Ser Tyr Gly Gly Ser Ile Thr Glu Asn Met Val Leu Pro Ser
 165 170 175
 Gly Asp Met Ala Glu Gly Thr Ile Pro Ala Ala Phe Ser Leu Leu Gly
 180 185 190
 Gln Val Pro Thr Ile Val Ile Val Met Leu Val Val Thr Ile Leu Ala
 195 200 205
 Gln Leu Gly Leu Ser Leu Thr Thr His Gly Arg Arg Met Tyr Ala Ile
 210 215 220
 Gly Gly Asn Pro Glu Ala Ala Arg Leu Ser Gly Ile Arg Thr Thr Arg
 225 230 235 240
 Tyr Lys Val Ala Ala Tyr Val Ile Ala Ser Leu Leu Ala Gly Leu Gly
 245 250 255
 Gly Ile Leu Leu Ala Ser Arg Ile Gly Ser Ser Gln Val Asn Ala Gly
 260 265 270
 Gly Gly Tyr Leu Met Asp Ala Val Ala Ala Trp Ile Gly Phe Ser
 275 280 285
 Leu Ala Gly Ser Gly Lys Pro Asn Ala Leu Gly Thr Leu Val Gly Ala
 290 295 300
 Val Ile Leu Gly Val Leu Ser Asn Gly Leu Val Met Leu Ser Val Pro
 305 310 315 320
 Tyr Tyr Ala Met Asp Ile Ile Lys Gly Leu Val Leu Ala Val Ala Leu
 325 330 335
 Ala Ile Thr Tyr Ile Gln Lys Arg
 340 345

<210> 9596

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 9596

Thr Ser Lys Arg Leu Asp Cys Gln Arg Leu Thr Ser Cys Tyr Ser Val
 1 5 10 15
 Ser Asn Ile Ser Ile Thr Gly Arg His Thr Thr Met Ser Asn Asn Pro
 20 25 30
 Leu Ile Pro Gln Ser Lys Leu Pro Asn Leu Gly Thr Thr Ile Phe Thr


```
<210> 9597
<211> 535
<212> PRT
<213> Enterobacter cloacae
```

<400> 9597																
Gly	Gly	Leu	His	Asp	Asp	Val	Leu	Arg	Glu	Gly	Arg	Ile	Met	Leu	Asp	
1				5					10					15		
Thr	Asn	Met	Lys	Thr	Gln	Leu	Lys	Ala	Tyr	Leu	Glu	Lys	Leu	Thr	Lys	
			20					25					30			
Pro	Val	Glu	Leu	Ile	Ala	Thr	Leu	Asp	Asp	Ser	Ala	Lys	Ser	Ala	Glu	
			35				40					45				
Ile	Lys	Ala	Leu	Leu	Thr	Glu	Ile	Ala	Glu	Leu	Ser	Pro	Lys	Val	Thr	

50		55		60
Phe Lys Glu Asp Asn Thr	Leu Ala Val Arg Lys	Pro Ser Phe Leu Ile		
65	70	75	80	
Ala Asn Pro Gly Ser	Asp Gln Gly Pro Arg Phe	Ala Gly Ser Pro Leu		
	85	90	95	
Gly His Glu Phe Thr Ser	Leu Val Leu Ala Leu	Leu Trp Thr Gly Gly		
	100	105	110	
His Pro Ser Lys Glu Ala	Gln Ala Leu Leu Glu	Gln Ile Arg Asp Ile		
	115	120	125	
Asp Gly Asp Phe Glu Phe	Glu Thr Tyr Tyr Ser	Leu Ser Cys His Asn		
	130	135	140	
Cys Pro Asp Val Val Gln	Ala Leu Asn Leu Met	Ser Val Leu Asn Pro		
	145	150	155	
Arg Ile Lys His Thr Ala	Ile Asp Gly Gly Thr	Phe Gln Asn Glu Ile		
	165	170	175	
Thr Glu Arg Asn Val Met	Gly Val Pro Ala Val	Tyr Leu Asn Gly Gln		
	180	185	190	
Glu Phe Gly Gln Gly Arg	Met Thr Leu Thr Glu	Ile Val Ala Lys Val		
	195	200	205	
Asp Thr Gly Ala Glu Lys	Arg Ala Ala Glu Glu	Leu Asn Gln Arg Asp		
	210	215	220	
Ala Tyr Asp Val Leu Ile	Val Gly Ser Gly Pro	Ala Gly Ala Ala Ala		
	225	230	235	
Ala Val Tyr Ser Ala Arg	Lys Gly Ile Arg Thr	Gly Leu Met Gly Glu		
	245	250	255	
Arg Phe Gly Gly Gln Val	Leu Asp Thr Val Asp	Ile Glu Asn Tyr Ile		
	260	265	270	
Ser Val Pro Lys Thr Glu	Gly Gln Lys Leu Ala	Gly Ala Leu Lys Ala		
	275	280	285	
His Val Ser Asp Tyr Asp	Val Asp Val Ile Asp	Ser Gln Ser Ala Ser		
	290	295	300	
Lys Leu Val Pro Ala Ala	Val Glu Gly Gly Leu	His Gln Ile Glu Thr		
	305	310	315	
Ala Ser Gly Ala Val Leu	Lys Ala Arg Ser Val	Ile Ile Ala Thr Gly		
	325	330	335	
Ala Lys Trp Arg Asn Met	Asn Val Pro Gly Glu	Asp Gln Tyr Arg Thr		
	340	345	350	
Lys Gly Val Thr Tyr Cys	Pro His Cys Asp Gly	Pro Leu Phe Lys Gly		
	355	360	365	
Lys Arg Val Ala Val Ile	Gly Gly Gly Asn Ser	Gly Val Glu Ala Ala		
	370	375	380	
Ile Asp Leu Ala Gly Ile	Val Glu His Val Thr	Leu Leu Glu Phe Ala		
	385	390	395	
Pro Glu Met Lys Ala Asp	Gln Val Leu Gln Asp	Lys Val Arg Ser Leu		
	405	410	415	
Asn Asn Val Asp Ile Val	Leu Asn Ala Gln Thr	Thr Glu Val Lys Gly		
	420	425	430	
Asp Gly Ser Lys Val Thr	Gly Leu Glu Tyr Arg	Asp Arg Val Ser Gly		
	435	440	445	
Asp Ile His Ser Val Ala	Leu Ala Gly Ile Phe	Val Gln Ile Gly Leu		
	450	455	460	
Leu Pro Asn Thr Thr Trp	Leu Glu Gly Ala Ile	Glu Arg Asn Arg Met		
	465	470	475	
Gly Glu Ile Ile Ile Asp	Ala Lys Cys Glu Thr	Ser Val Lys Gly Val		
	485	490	495	
Phe Ala Ala Gly Asp Cys	Thr Thr Val Pro Tyr	Lys Gln Ile Ile Ile		
	500	505	510	
Ala Thr Gly Glu Gly Ala	Lys Ala Ser Leu Ser	Ser Phe Asp Tyr Leu		
	515	520	525	
Ile Arg Thr Lys Thr Ala				
530	535			

<210> 9599
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

<400> 9599
 Gly Thr Ala Arg Glu Phe Pro Val Asp Ser Ile Ala Cys Ala Gln Ser
 1 5 10 15
 Lys Gln Arg Arg Ala His Gly Cys Gln His Arg Gln Leu Arg Ala Ala
 20 25 30
 Val Gly His Leu Arg Arg Ile Asp Gln Arg Thr Gly Glu Leu Leu Ala
 35 40 45
 Gly Gly Gln Val Ala Glu Leu His Leu Ala Val His Gly Asp His Ile
 50 55 60
 Met Arg His Gly Leu Arg Arg Thr His Leu Arg Pro Val
 65 70 75

<210> 9600
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 9600
 Phe Val Asp Phe Ile Tyr Leu Thr Phe Asn Arg Ser Phe Ile Met Arg
 1 5 10 15
 Thr Val Phe Leu Ser Ala Leu Val Gly Ala Ser Val Ser Phe Ala Ser
 20 25 30
 Tyr Thr Ala Gln Ala Asn Gln Thr Trp Gln Gly Arg Gly Val Val Gln
 35 40 45
 Ser Ile Ser Asp Ser Ala Val Met Leu Arg His Glu Ala Ile Pro Glu
 50 55 60
 Leu Lys Trp Pro Ala Met Thr Met Pro Phe Thr Leu Ser Ala Gly Ala
 65 70 75 80
 Thr Leu Asn Gly Ala Lys Pro Gly Asp Glu Val Thr Phe Thr Leu Glu
 85 90 95
 Arg Ala Gly Asp Gly Phe Lys Ile Ile Ser Leu Thr Pro Ala Arg
 100 105 110

<210> 9601
 <211> 396
 <212> PRT
 <213> Enterobacter cloacae

<400> 9601
 Arg Asp Ala Gly Gly Asp Ala Met Ile Ala Ala Val Ile Arg Ala Ser
 1 5 10 15
 Leu Arg Asn Arg Leu Leu Val Ile Leu Ala Ala Leu Met Met Ala Gly
 20 25 30
 Trp Gly Trp Trp Ala Val Gln Arg Ala Pro Leu Asp Ala Leu Pro Asp
 35 40 45
 Leu Ser Asp Val Gln Val Ile Ile Lys Ala Ser Tyr Pro Gly Lys Ala
 50 55 60
 Pro Gln Val Ile Glu Asp Gln Val Thr Trp Pro Leu Thr Thr Ser Met
 65 70 75 80
 Leu Ser Val Pro Gly Ala Lys Thr Val Arg Gly Phe Ser Met Phe Gly
 85 90 95
 Asp Ala Tyr Val Tyr Val Leu Phe Glu Asp Gly Thr Asp Leu Tyr Trp
 100 105 110
 Ala Arg Ser Arg Val Leu Glu Tyr Leu Ser Gln Val Gln Ala Gln Phe
 115 120 125

Pro Pro Gly Val Lys Val Ser Leu Gly Pro Asp Ala Thr Gly Val Gly
 130 135 140
 Trp Ile Tyr Glu Tyr Ala Leu Ile Asp Arg Ser Gly Lys His Ser Leu
 145 150 155 160
 Ala Asp Leu Arg Ala Leu Gln Asp Trp Thr Leu Lys Phe Glu Leu Lys
 165 170 175
 Thr Val Pro Asn Val Ser Glu Val Ala Ser Ile Gly Gly Met Val Arg
 180 185 190
 Gln Tyr Gln Ile Val Ala Asp Pro Ala Lys Met Arg Ala Leu Asn Ile
 195 200 205
 Thr His Ser Gln Leu Ser Gly Ala Val Gln Ala Ala Asn Lys Glu Ser
 210 215 220
 Gly Gly Ala Leu Leu Glu Met Gly Glu Ala Glu Tyr Met Val Arg Thr
 225 230 235 240
 Thr Gly Tyr Leu Arg Ser Leu Glu Asp Phe Arg Asn Val Val Ile Ala
 245 250 255
 Thr Arg Asp Gly Val Pro Val Leu Leu Lys Asp Val Ala Thr Ile Gly
 260 265 270
 Ile Gly Pro Glu Ile Arg Arg Ser Val Ala Glu Leu Asn Gly Glu Gly
 275 280 285
 Glu Val Ala Gly Gly Val Ile Val Met Arg Tyr Gly Gln Asn Ala Leu
 290 295 300
 Glu Thr Leu His Ala Val Lys Ala Lys Leu Ser Glu Leu Gln Lys Thr
 305 310 315 320
 Leu Pro Gln Gly Val Glu Ile Val Pro Val Tyr Asp Arg Ser Thr Leu
 325 330 335
 Ile Glu Asp Ser Val Lys Thr Leu Thr His Lys Leu Leu Glu Glu Phe
 340 345 350
 Ala Val Val Val Leu Val Cys Ala Leu Phe Leu Phe His Leu Arg Ser
 355 360 365
 Ala Leu Val Ala Met Val Ser Leu Pro Leu Gly Ile Leu Gly Ala Phe
 370 375 380
 Val Val Met His Tyr Gln Gly Ile Thr Arg Ile
 385 390 395

<210> 9602

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 9602

Asn Ser Ser Arg Ile Thr Ser Pro Thr Pro Val Ser Ser Gly Ser Phe
 1 5 10 15
 Cys Asn Ile Arg Val Arg Ile Pro Ser Val Thr Thr Ser Ser Arg Val
 20 25 30
 Asp Gly Pro Thr Gln Val Ser Ala Arg Ile Arg Tyr Pro Thr Val Ser
 35 40 45
 Pro Gly Phe Ser Phe Ser Ser Ser Ala Arg Arg Cys Ala Thr Leu Arg
 50 55 60
 Ala Ala Ser Leu Arg Gly Ser Ser Arg Ile Ile Phe Pro Leu Met Phe
 65 70 75 80
 Pro Ser Arg Arg Ile Cys Arg Gly Ser Gln Val Asp Leu Pro Ala Pro
 85 90 95
 Val Gly Ala Leu Ser Lys Thr Cys Gly Ala Cys Ser Lys Ala Ala Ser
 100 105 110
 Ser Ser Gly Arg Thr Thr Ala Thr Gly Lys Glu Asp Thr Tyr Gly Ser
 115 120 125
 Arg Gly Leu Thr Leu Ile Gly Val His Cys Ser Ile Gly Ala Tyr His
 130 135 140
 Tyr Arg Val Leu Arg Met Ser Glu Ser Lys Arg Leu Phe Phe Ala Ile
 145 150 155 160

Glu Leu Pro Thr Thr Leu Gln Arg Gln Ile Val Arg Trp Arg Ala Ser
 165 170 175
 His Phe Pro Ala Glu Ala Gly Arg Pro Val Val Ala Ala Asn Met His
 180 185 190
 Leu Thr Leu Ala Phe Leu Gly Glu Val Ser Ala Glu Lys Gln Arg Ala
 195 200 205
 Leu Ser Ala Met Ala Gly Arg Ile Ser Gln Pro Gly Phe Thr Leu His
 210 215 220
 Leu Asp Asp Ala Gly Gln Trp Leu Arg Ser Arg Val Val Trp Leu Gly
 225 230 235 240
 Thr Arg Gln Pro Pro Arg Gly Leu Leu Gln Leu Ala Asn Met Leu Arg
 245 250 255
 Ala Gln Ala Ala Arg Ser Gly Cys Tyr Gln Ser Pro Gln Pro Phe His
 260 265 270
 Pro His Ile Thr Leu Leu Arg Asp Ala Gly Gln Ala Val Ala Ile Pro
 275 280 285
 Pro Pro Gly Phe His Trp Ser Phe Gln Val Asn Glu Phe Ala Leu Tyr
 290 295 300
 Glu Ser Ala Phe Val Gln Gly Arg Thr Arg Tyr Thr Pro Leu Gln Arg
 305 310 315 320
 Trp Thr Leu Gly Asp Thr Leu Arg Asn Pro Asp Glu Val
 325 330

<210> 9603

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 9603

Cys Val Leu Arg Arg Ser Asn Met Gln Glu Gly Gln Asn Arg Lys Thr
 1 5 10 15
 Ser Ser Leu Ser Ile Leu Ala Ile Ala Gly Val Glu Pro Tyr Gln Glu
 20 25 30
 Lys Pro Gly Glu Glu Tyr Met Asn Glu Ala Gln Leu Ser His Phe Lys
 35 40 45
 Arg Ile Leu Glu Ala Trp Arg Asn Gln Leu Arg Asp Glu Val Asp Arg
 50 55 60
 Thr Val Thr His Met Gln Asp Glu Ala Ala Asn Phe Pro Asp Pro Val
 65 70 75 80
 Asp Arg Ala Ala Gln Glu Glu Phe Ser Leu Glu Leu Arg Asn Arg
 85 90 95
 Asp Arg Glu Arg Lys Leu Ile Lys Lys Ile Glu Lys Thr Leu Lys Lys
 100 105 110
 Val Glu Asp Glu Asp Phe Gly Tyr Cys Glu Ser Cys Gly Val Glu Ile
 115 120 125
 Gly Ile Arg Arg Leu Glu Ala Arg Pro Thr Ala Asp Leu Cys Ile Asp
 130 135 140
 Cys Lys Thr Leu Ala Glu Ile Arg Glu Lys Gln Met Ala Gly
 145 150 155

<210> 9604

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 9604

Val Arg Arg Leu Ser Gly Arg Arg Thr Gln Phe Pro Leu Arg Ser Pro
 1 5 10 15
 Gly Val Leu Ile Ile Glu Thr Leu Pro Leu Leu Arg Gln His Ile Arg
 20 25 30
 Arg Ala Arg Gln Glu Gly Lys Arg Ile Ala Leu Val Pro Thr Met Gly

<400>	9605															
Lys	Met	Ser	Phe	Asn	Lys	Leu	Gly	Leu	Ala	Thr	Val	Val	Ala	Met	Val	
1			5						10					15		
Leu	Ser	Ala	Gly	Ser	Ala	Met	Ala	Ala	Asp	Ile	Pro	Ser	Asp	Thr	Gly	
			20					25					30			
Thr	Ile	Thr	Phe	His	Gly	Met	Val	Ser	Asn	Asn	Thr	Cys	Lys	Val	Ser	
		35					40					45				
Leu	Asp	Gln	Lys	Ile	Asp	Gln	Asp	Gly	Asn	Asp	Phe	Asp	Val	Asn	Leu	
	50					55					60					
Asp	Thr	Val	Phe	Val	Lys	Asp	Phe	Ala	Asn	Ala	Leu	Gly	Thr	Thr	Ser	
65					70					75					80	
Thr	Leu	Gly	Glu	Lys	Lys	Phe	Ser	Leu	Thr	Leu	Thr	Gly	Cys	Asp	Ser	
			85						90					95		
Ala	Thr	Val	Lys	Gln	Ala	Ser	Ala	Gln	Phe	Asp	Ser	Trp	Ala	Gly	Ser	
			100					105					110			
Ser	Ser	Thr	Ser	Gly	Gly	Leu	Leu	Val	Pro	Pro	Ser	Asn	Thr	Gln	Gly	
		115					120					125				
Ala	Ala	Lys	Asn	Val	Asn	Leu	Val	Leu	Ser	Asn	Asp	Gly	Asn	Ser	Ala	
	130					135					140					
Thr	Asp	Gln	Ile	Lys	Leu	Asp	Gln	Thr	Asn	Asn	Thr	Gln	Lys	Ala	Thr	
145					150					155					160	
Ile	Asp	Thr	Thr	Gly	Ala	Gly	Ala	Leu	Tyr	Tyr	Arg	Val	Ala	Tyr	Thr	

Case	Age	Sex	Site	Pathologic	Survival	Ref.
1	65	M	Rectum	Adenocarcinoma	10 mo	[1]
2	68	M	Rectum	Adenocarcinoma	12 mo	[2]
3	70	M	Rectum	Adenocarcinoma	18 mo	[3]
4	72	M	Rectum	Adenocarcinoma	24 mo	[4]
5	75	M	Rectum	Adenocarcinoma	30 mo	[5]
6	78	M	Rectum	Adenocarcinoma	36 mo	[6]
7	80	M	Rectum	Adenocarcinoma	42 mo	[7]
8	82	M	Rectum	Adenocarcinoma	48 mo	[8]
9	85	M	Rectum	Adenocarcinoma	54 mo	[9]
10	88	M	Rectum	Adenocarcinoma	60 mo	[10]
11	90	M	Rectum	Adenocarcinoma	66 mo	[11]
12	92	M	Rectum	Adenocarcinoma	72 mo	[12]
13	95	M	Rectum	Adenocarcinoma	78 mo	[13]
14	98	M	Rectum	Adenocarcinoma	84 mo	[14]
15	100	M	Rectum	Adenocarcinoma	90 mo	[15]

```
<210> 9606
<211> 209
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9607
<211> 374
<212> PRT
<213> Enterobacter cloacae
```

<400> 9607															
Arg	His	Leu	Arg	Ile	Ile	Ile	Arg	Thr	Gly	Lys	Arg	Met	Arg	Met	Phe
1				5					10					15	
Asn	Phe	Ile	Arg	Gln	Gly	Phe	Thr	Val	Lys	Gly	Thr	Met	Ala	Phe	Ala
			20					25					30		
Met	Ala	Ser	Val	Leu	Leu	Thr	Leu	Ser	His	Ser	Cys	Trp	Ala	Ala	Asp
		35					40					45			
Cys	Arg	Met	Asn	Asn	Gly	Lys	Gly	Gly	Thr	Thr	Thr	Leu	Ile	Asn	Ser
	50					55					60				
Glu	Tyr	Ser	Gly	Gly	Thr	Val	Arg	Leu	Pro	Pro	Pro	Gly	Asn	Tyr	Ala
65				70					75						80
Ser	Thr	Leu	Phe	Asn	Val	Asn	Leu	Thr	Pro	Gly	Ile	Gln	Ala	Glu	Cys
			85						90					95	
Gly	Pro	Gly	Asn	Asp	Gly	Phe	Asn	Leu	Val	Ser	Gln	Thr	Asn	Pro	Thr
			100					105					110		

Leu Leu Lys Gly Ser Ser Tyr Gly Arg Ala Met Phe Glu Thr Asn Ile
 115 120 125
 Pro Gly Ile Tyr Tyr Ser Val Arg Val His Thr Ala Glu Ser Asp Gly
 130 135 140
 Gly Met Gly Gly Tyr Phe Ala Met Asn Thr Thr Asp Trp Thr Thr Val
 145 150 155 160
 Ala Ser Ser Gly Asn Ser Asp Pro Trp Asp Glu Lys Trp Ile Asn Thr
 165 170 175
 Ser Val Gln Ile Tyr Ile Asp Ala Gly Tyr Arg Gly Asn Pro Asn Lys
 180 185 190
 Glu Thr Ser Ile Arg Pro Lys Pro Gly Thr Leu Gly Lys Met Ala Ile
 195 200 205
 Gly Asn Pro Asn Asp Ser Asn Asn Gln Pro Trp Thr Phe Val Val Asn
 210 215 220
 Glu Asp Ser Phe Gln Ile Pro Ile Val Leu Pro Thr Cys Asp Met Ala
 225 230 235 240
 Met Leu Ser Asp Gly Thr Asn Asp Val Asn Leu Gly Glu Tyr Tyr Val
 245 250 255
 Ser Asp Ile Lys Asn Asn Arg Val Lys Asp Ile Pro Phe Ser Ile Ser
 260 265 270
 Leu Ser Asn Cys Thr Ser Val Ala Asn Ile Thr Thr Lys Leu Thr Thr
 275 280 285
 Ser Lys Leu Thr Gly Lys Asn Asn Asp Leu Leu Gly Asn Thr Leu Ser
 290 295 300
 Ser Gly Ala Glu Gly Ala Gly Val Lys Ile Met Tyr Asn Gly Thr Ser
 305 310 315 320
 Gln Leu Leu Pro Asn Asn Pro Asp Ser Ser Tyr Val Ile Thr Asp Tyr
 325 330 335
 Gln Thr Pro Glu Ser Lys Gln Ile Asn Tyr Val Ala Gln Leu Val Ala
 340 345 350
 Asn Gly Ser Thr Val Lys Pro Gly Ser Phe Lys Ala Thr Gly Val Phe
 355 360 365
 Thr Leu Ser Tyr Asp
 370

<210> 9608

<211> 601

<212> PRT

<213> Enterobacter cloacae

<400> 9608

Pro Arg Thr His Gln Val Pro Pro Arg Gln Ala Ala Ala Gly Arg Asn
 1 5 10 15
 His Ala Leu Pro Cys Pro Ala Leu Ser Ala Gly Glu Leu Gly Leu Pro
 20 25 30
 Ala Val His Gly Ser Cys Thr Gly His His Ala His His Pro Arg His
 35 40 45
 Gly Asp Phe Arg Leu Pro Asp Pro Gly Leu Asp Cys Asp Pro Arg Arg
 50 55 60
 Gly Leu Tyr Gly Glu Thr Glu Lys Cys Gln Asn Gly Glu Ser Ala Leu
 65 70 75 80
 Asn Val Phe Ser Leu Tyr Ser Arg Leu Arg Val Gln Arg Leu Val Thr
 85 90 95
 Phe Leu Thr Asn Ser Arg Gln Gln Gln Asn Pro Pro Tyr His Arg Leu
 100 105 110
 Tyr Ile Ala Thr His Ile Phe Val Cys Gln Arg Ile Ile Leu Ser Ile
 115 120 125
 Pro Lys Pro Gly Glu Leu Ser Met Asn Asn Asn Lys Leu Ser Val Lys
 130 135 140
 Glu Lys Ile Gly Tyr Gly Met Gly Asp Ala Gly Cys Asn Ile Ile Phe
 145 150 155 160

Gly Ala Ile Met Leu Phe Val Asn Tyr Phe Tyr Thr Asp Ile Phe Gly
 165 170 175
 Leu Ala Pro Ala Leu Val Gly Val Leu Leu Ser Val Arg Val Ile
 180 185 190
 Asp Ala Val Thr Asp Pro Ile Met Gly Ala Ile Ala Asp Arg Thr Arg
 195 200 205
 Ser Lys Tyr Gly Arg Phe Arg Pro Trp Leu Leu Trp Ile Ala Phe Pro
 210 215 220
 Tyr Ala Leu Phe Ser Ile Leu Met Phe Thr Thr Pro Glu Trp Ser Tyr
 225 230 235 240
 Asn Ser Lys Val Ile Tyr Ala Phe Val Thr Tyr Phe Leu Leu Ser Leu
 245 250 255
 Thr Tyr Thr Ala Ile Asn Ile Pro Tyr Cys Ser Leu Gly Gly Val Ile
 260 265 270
 Thr Asn Asp Pro Lys Glu Arg Val Ala Cys Gln Ser Tyr Arg Phe Val
 275 280 285
 Met Val Gly Ile Ala Thr Leu Leu Ser Leu Thr Leu Leu Pro Met
 290 295 300
 Ala Asp Trp Phe Gly Gly Asp Asn Lys Ala Lys Gly Tyr Gln Met Ala
 305 310 315 320
 Met Thr Val Leu Ala Leu Ile Gly Thr Cys Met Phe Leu Phe Cys Phe
 325 330 335
 Ala Thr Val Arg Glu Arg Val Arg Pro Ala Val Gln Thr His Asp Glu
 340 345 350
 Leu Lys Asn Asp Leu Lys Asp Val Trp Lys Asn Asp Gln Trp Val Arg
 355 360 365
 Ile Leu Leu Leu Thr Leu Cys Asn Val Cys Pro Gly Phe Ile Arg Met
 370 375 380
 Ala Ala Thr Met Tyr Tyr Val Thr Trp Val Met Gly Gln Ser Thr His
 385 390 395 400
 Phe Ala Thr Leu Phe Ile Ser Leu Gly Val Val Gly Met Met Phe Gly
 405 410 415
 Ser Met Leu Ala Lys Val Leu Thr Asp Arg Trp Cys Lys Leu Lys Val
 420 425 430
 Phe Phe Trp Thr Asn Ile Ala Leu Ala Ile Phe Ser Cys Ala Phe Tyr
 435 440 445
 Phe Phe Asp Pro Lys Ala Thr Thr Thr Ile Val Val Leu Tyr Val Leu
 450 455 460
 Leu Asn Ile Leu His Gln Ile Pro Ser Pro Leu His Trp Ser Leu Met
 465 470 475 480
 Ala Asp Val Asp Asp Tyr Gly Glu Trp Lys Thr Gly Lys Arg Ile Thr
 485 490 495
 Gly Ile Ser Phe Ser Gly Asn Ile Phe Phe Leu Lys Leu Gly Leu Ala
 500 505 510
 Ile Ala Gly Ala Met Val Gly Phe Leu Leu Ser Trp Tyr Gly Tyr Asp
 515 520 525
 Ala Gly Ala Lys Ala Gln Ser Ala Asp Ala Ile Asn Gly Ile Val Leu
 530 535 540
 Leu Phe Thr Val Ile Pro Gly Ile Gly Tyr Leu Ile Thr Ala Gly Val
 545 550 555 560
 Val Arg Leu Leu Lys Val Asp Arg Glu Thr Met Lys Gln Ile Gln Ser
 565 570 575
 Asp Leu Glu Lys Arg Arg Thr Asn Tyr Arg Glu Leu Asn Asp Tyr Gln
 580 585 590
 Glu Leu Lys Ala Ala Glu Thr Lys
 595 600

<210> 9609

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 9609

Gln His Ala Gly Thr Pro Tyr Leu Trp Cys Cys Tyr Ser Val Gln Ser
 1 5 10 15
 Ser Met Phe Gln Tyr Tyr Asp Ser Leu Pro Ile Trp Ser Phe Ile Met
 20 25 30
 Pro Pro Arg Arg Tyr Asn Pro Asp His Arg Arg Asp Ala Leu Leu Glu
 35 40 45
 Arg Ile Asn Ser Asp Ile Pro Ala Ser Val Ala His Ala Leu Arg Glu
 50 55 60
 Asp Leu Gly Gly Asp Val Ser Ala Asp Asn Asp Ile Thr Ala Gln Leu
 65 70 75 80
 Leu Pro Lys Glu Thr Arg Ser His Ala Val Val Ile Thr Arg Glu Ala
 85 90 95
 Gly Val Phe Cys Gly Lys Arg Trp Val Glu Glu Val Phe Thr Gln Leu
 100 105 110
 Ala Gly Asp Glu Val Gln Val Thr Trp His Val Glu Asp Gly Asp Ala
 115 120 125
 Val Thr Ala Asn Gln Pro Leu Phe Glu Leu Asp Gly Pro Ser Arg Val
 130 135 140
 Leu Leu Thr Gly Glu Arg Thr Ala Leu Asn Phe Val Gln Thr Leu Ser
 145 150 155 160
 Gly Val Ala Ser Glu Val Arg Arg Tyr Val Asp Leu Leu Ala Gly Thr
 165 170 175
 Arg Thr Gln Leu Leu Asp Thr Arg Lys Thr Leu Pro Gly Leu Arg Thr
 180 185 190
 Ala Leu Lys Tyr Ala Val Leu Cys Gly Gly Ala Asn His Arg Leu
 195 200 205
 Gly Leu Ser Asp Ala Phe Leu Ile Lys Glu Asn His Ile Ile Ala Ser
 210 215 220
 Gly Ser Val Arg Gln Ala Val Glu Lys Ala Phe Trp Leu His Pro Asp
 225 230 235 240
 Val Pro Val Glu Val Glu Val Glu Thr Leu Glu Glu Leu Asp Glu Ala
 245 250 255
 Ile Lys Ala Gly Ala Asp Ile Ile Met Leu Asp Asn Phe Asp Thr Glu
 260 265 270
 Gln Met Arg Glu Ala Val Lys Arg Thr Asn Gly Gln Ala Gln Leu Glu
 275 280 285
 Val Ser Gly Asn Val Thr Phe Asp Thr Ile Arg Glu Phe Ala Glu Thr
 290 295 300
 Gly Val Asp Tyr Ile Ser Val Gly Ala Leu Thr Lys His Val Arg Ala
 305 310 315 320
 Leu Asp Leu Ser Met Arg Phe Lys
 325

<210> 9610

<211> 408

<212> PRT

<213> *Enterobacter cloacae*

<400> 9610

Leu Arg Ser Lys Ser Cys Cys Ala Ser Trp Glu Cys Gln Met Ala Ala
 1 5 10 15
 Asn Ser Leu Trp Arg Trp Arg Ala Leu Thr Thr Glu Gly Glu Val Gln
 20 25 30
 Thr Gly Thr Leu Trp Ala Ile Asp Arg Asn Ala Ala Tyr Thr Ala Leu
 35 40 45
 Val Leu Lys Gln Leu His Pro Leu Ala Leu Lys Arg Cys Gln Gln His
 50 55 60
 His Arg Trp Gln Val Gln His Cys Tyr Asp Ile Phe Arg Gln Leu Ala
 65 70 75 80

```
<210> 9611
<211> 213
<212> PRT
<213> Enterobacter cloacae
```

<400> 9611																
Phe	Pro	Gly	Ser	Asp	Leu	Met	Gly	Tyr	Ile	Val	Ala	Leu	Thr	Gly	Gly	
1				5					10					15		
Ile	Gly	Ser	Gly	Lys	Ser	Thr	Val	Ala	His	Ala	Phe	Ala	Arg	Leu	Gly	
			20					25					30			
Ile	Thr	Ile	Ile	Asp	Ala	Asp	Ile	Ile	Ala	Arg	His	Val	Val	Glu	Pro	
			35				40					45				
Asn	Thr	Pro	Ala	Leu	Asn	Ala	Ile	Glu	Ala	His	Phe	Gly	Arg	Arg	Val	
	50					55					60					
Ile	Gln	Ala	Asp	Gly	Thr	Leu	Asn	Arg	Arg	Gln	Leu	Arg	Glu	Tyr	Ile	
65					70					75					80	
Phe	Ser	Asp	Pro	Ala	Glu	Lys	Ala	Trp	Leu	Asn	Ala	Leu	Leu	His	Pro	
				85					90					95		

Ile Ile His Gln Glu Thr Gln Arg Gln Ile Ala Ala Ala Arg Ser Pro
 100 105 110
 Tyr Val Leu Trp Val Val Pro Leu Leu Val Glu Asn Gln Leu Gln Asn
 115 120 125
 Lys Ala Asp Arg Thr Leu Val Ile Asp Val Ser Arg Glu Thr Gln Ile
 130 135 140
 Gln Arg Thr Met Ala Arg Asp His Val Ser Arg Glu His Ala Glu Gln
 145 150 155 160
 Ile Leu Ala Ala Gln Ala Thr Arg Glu Ala Arg Leu Ala Val Ala Asp
 165 170 175
 Asp Val Ile Asp Asn Asn Gly Ala Pro Asp Ala Ile Ala Ser Asp Val
 180 185 190
 Ala Arg Leu His Ala Gln Tyr Leu Thr Phe Ala Ala Gln Ala Val Ala
 195 200 205
 Gln Glu Lys Pro
 210

<210> 9612

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 9612

His Gln Ala Pro Ser Gly Arg Ala Gly Ser Val Arg Arg Ser Ser Ala
 1 5 10 15
 Ala Thr Ala Thr Val Gln Ala Ser Arg Ala Ala Ser His Pro Pro
 20 25 30
 Leu Ala Thr Pro Val Pro Ala Ala Thr Ser Arg Arg Ser Ala Asp Val
 35 40 45
 Tyr Asp Ile Val Gln Pro Pro Ala Ser Ser Ser Val Arg Ser Ala Leu
 50 55 60
 Phe Pro Glu Cys His Ser Ala Ser Pro Gly Val Thr Leu Pro Pro Thr
 65 70 75 80
 Ala Ser Pro Ala Val Ser Ser Arg Ala Ser Val Cys Gln Ser Gly Tyr
 85 90 95
 Asp Gly Thr Pro Ser Ala Cys Pro Gly Tyr His Pro Ile Pro Arg Cys
 100 105 110
 Gln Ile Ala Glu Ala Ala Ala Gly Arg His Ala Ser Gly Gly Gln Tyr
 115 120 125
 Pro Arg Gln Pro Pro Val Lys Tyr Ala Arg Pro Gly Ser Gly Cys Pro
 130 135 140
 Gly Val Arg Ala Ala Arg Ser Ala Ile His Asp Ala Ser Gly Arg His
 145 150 155 160
 Arg Cys Pro Ala Ser Arg Pro Ser His Leu Pro Ala Asp Ser Asp His
 165 170 175
 Pro Ala Arg Asp Gly Ala Arg Phe Cys Pro Gly Arg Pro Gly Pro Ala
 180 185 190
 Glu Gly
 195

<210> 9613

<211> 238

<212> PRT

<213> Enterobacter cloacae

<400> 9613

Gly Ile Leu Met Lys Phe Ser Pro Ala Leu Gln Pro Ala Thr Leu Ile
 1 5 10 15
 Gln Arg Tyr Lys Arg Phe Leu Ala Asp Val Ile Thr Pro Ala Gly Glu
 20 25 30
 Thr Leu Thr Leu His Cys Pro Asn Thr Gly Ala Met Thr Gly Cys Ala

```

      35      40      45
Thr Pro Gly Asp Thr Val Trp Tyr Ser Thr Ser Glu Asn Thr Lys Arg
50      55      60
Lys Tyr Pro His Thr Trp Glu Met Thr Glu Thr Gln Ser Gly Ala Phe
65      70      75      80
Ile Cys Val Asn Thr Leu Arg Ala Asn Gln Leu Val Lys Glu Ala Leu
      85      90      95
Thr Asn Gly Met Leu Pro Glu Leu Val Gly Tyr Gly Thr Gln Lys Ser
100      105      110
Glu Val Lys Tyr Gly Asp Glu Gly Ser Arg Ile Asp Phe Met Leu Gln
115      120      125
Ala Glu Asp Arg Pro Glu Cys Tyr Ile Glu Val Lys Ser Val Thr Leu
130      135      140
Ala Glu Gln Val Asn Gly Phe Phe Pro Asp Ala Val Thr Leu Arg Gly
145      150      155      160
Gln Lys His Leu Arg Glu Leu Met Ser Val Ala Ala Ala Gly Lys Arg
165      170      175
Ala Val Leu Leu Phe Ala Val Leu His Ser Ala Ile Glu Arg Phe Ser
180      185      190
Pro Ala Arg His Ile Asp Pro Lys Tyr Ala Gln Leu Leu Asn Glu Ala
195      200      205
Gln Lys Gln Gly Val Glu Ile Phe Ala Tyr Lys Ala Glu Leu Ser Ala
210      215      220
Asp Asn Met Thr Leu Arg Ser Ser Leu Pro Ile Val Leu
225      230      235

```

<210> 9614

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 9614

```

Arg His Gly Met Thr Leu Ala Tyr Ile Ala Ile Gly Ser Asn Leu Ala
1      5      10      15
Ser Pro Leu Glu Gln Val Asn Ala Ala Val Gln Ala Leu Gly Glu Ile
20      25      30
Pro Gln Ser Arg Ile Val Ala Leu Ser Ser Phe Tyr Arg Thr Pro Pro
35      40      45
Leu Gly Pro Gln Asp Gln Pro Asp Tyr Leu Asn Ala Ala Val Val Leu
50      55      60
Glu Thr Thr Leu Asp Ala Glu Thr Leu Leu Asp Asn Thr Gln Arg Ile
65      70      75      80
Glu Leu Gln Gln Gly Arg Val Arg Lys Ala Glu Arg Trp Gly Pro Arg
85      90      95
Thr Leu Asp Leu Asp Ile Met Leu Phe Gly His Glu Val Ile Asn Thr
100      105      110
Glu Arg Leu Thr Val Pro His Tyr Asp Met Lys Asn Arg Gly Phe Met
115      120      125
Leu Trp Pro Leu Phe Glu Val Ala Pro Asp Leu Thr Phe Pro Asp Gly
130      135      140
Ala Ser Leu Gln Ala Val Leu Gln Asn Leu Asn Ala Asp Lys Pro Ala
145      150      155      160
Arg Trp

```

<210> 9615

<211> 277

<212> PRT

<213> Enterobacter cloacae

<400> 9615

Asn Ala Gln Arg Phe Ala Phe Gly Pro Ser Gly Asn Ser Met Lys Pro
 1 5 10 15
 Thr Thr Ile Ser Leu Leu Gln Lys Cys Lys Gln Glu Lys Lys Arg Phe
 20 25 30
 Ala Thr Ile Thr Ala Tyr Asp Tyr Ser Phe Ala Lys Leu Phe Ala Glu
 35 40 45
 Glu Gly Ile Asn Val Met Leu Val Gly Asp Ser Leu Gly Met Thr Val
 50 55 60
 Gln Gly His Asp Ser Thr Leu Pro Val Thr Val Glu Asp Ile Ala Tyr
 65 70 75 80
 His Thr Arg Ala Val Arg Arg Gly Ala Pro Ala Cys Leu Leu Leu Ser
 85 90 95
 Asp Leu Pro Phe Met Ala Tyr Ala Thr Pro Glu Gln Ala Phe Glu Asn
 100 105 110
 Ala Ala Thr Val Met Arg Ala Gly Ala Asn Met Val Lys Ile Glu Gly
 115 120 125
 Gly Ala Trp Leu Val Asp Thr Val Lys Met Leu Thr Glu Arg Ala Val
 130 135 140
 Pro Val Cys Gly His Leu Gly Leu Thr Pro Gln Ser Val Asn Ile Phe
 145 150 155 160
 Gly Gly Tyr Lys Val Gln Gly Arg Gly Asp Ala Ala Gln Thr Leu Phe
 165 170 175
 Asp Asp Ala Val Ala Leu Glu Ala Ala Gly Ala Gln Leu Leu Val Leu
 180 185 190
 Glu Cys Val Pro Val Glu Leu Ala Lys Arg Ile Thr Glu Ala Leu Ser
 195 200 205
 Ile Pro Val Ile Gly Ile Gly Ala Gly Asn Val Thr Asp Gly Gln Ile
 210 215 220
 Leu Val Met His Asp Ala Phe Gly Ile Thr Gly Gly His Ile Pro Lys
 225 230 235 240
 Phe Ala Lys Asn Phe Leu Thr Glu Ala Gly Asp Met Arg Ala Ala Val
 245 250 255
 Arg Gln Tyr Ile Ala Glu Val Glu Ser Gly Val Tyr Pro Gly Glu Glu
 260 265 270
 His Ser Phe His
 275

<210> 9616

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 9616

Lys Val Asn Val Met Ile Arg Lys Met Leu Gln Gly Lys Leu His Arg
 1 5 10 15
 Val Lys Val Thr Gln Ala Asp Leu His Tyr Glu Gly Ser Cys Ala Ile
 20 25 30
 Asp Gln Asp Phe Leu Asp Ala Ala Gly Ile Leu Glu Asn Glu Ala Ile
 35 40 45
 Asp Ile Trp Asn Val Asn Asn Gly Lys Arg Phe Ser Thr Tyr Ala Ile
 50 55 60
 Ala Ala Glu Arg Gly Ser Lys Ile Ile Ser Val Asn Gly Ala Ala Ala
 65 70 75 80
 His Cys Ala Asp Val Gly Asp Ile Val Ile Ala Ser Phe Val Met
 85 90 95
 Met Ser Asp Glu Glu Ala Arg Arg Trp Gln Pro Lys Val Ala Tyr Phe
 100 105 110
 Glu Gly Asp Asn Glu Met Lys Arg Thr Ala Lys Ala Ile Pro Val Gln
 115 120 125
 Val Ala
 130

<210> 9617
 <211> 280
 <212> PRT
 <213> Enterobacter cloacae

<400> 9617
 Ser Thr Ser Asn Phe Lys Ser Ile Asp Lys Met Leu Ile Leu Ser Pro
 1 5 10 15
 Asp Val Arg Gln Gly Thr Ile Asp Ile Ile Pro Thr Gly Ser Gly Lys
 20 25 30
 Met Leu Asn Thr Ser Phe Tyr Lys Gly Phe Lys Ala Ala Cys Phe Thr
 35 40 45
 Val Ala Ala Val Ala Ser Phe Gln Ala Ser Ala Asp Ile Val Ile Ser
 50 55 60
 Gly Thr Arg Ile Val Tyr Gln Gln Ser Gln Lys Asp Val Ile Val Ser
 65 70 75 80
 Leu Asp Asn Arg Gly Lys Lys Pro Leu Leu Val Gln Ser Trp Leu Asp
 85 90 95
 Asp Gly Arg Asp Asp Thr Asn Pro Gln Glu Leu Lys Leu Pro Phe Ile
 100 105 110
 Ile Thr Pro Pro Val Ser Arg Ile Asp Pro Gln Lys Gly Gln Ser Val
 115 120 125
 Arg Ile Ser Tyr Leu Gly Gly Ser Leu Pro Gln Asp Arg Glu Ser Leu
 130 135 140
 Phe Trp Phe Asn Val Leu Glu Ile Pro Pro Lys Ser Lys Val Lys Asp
 145 150 155 160
 Gly Glu Asn Pro Asn Gln Leu Gln Leu Ala Phe Arg Thr Arg Ile Lys
 165 170 175
 Leu Phe Phe Arg Pro Asp Gly Leu Lys Gly Thr Pro Gly Asn Ala Ala
 180 185 190
 Ala Arg Val Thr Trp Ser Gln Gln Lys Gln Gly Asn Thr Leu Asn Leu
 195 200 205
 Ile Ala His Asn Asp Ser Pro Tyr Asn Val Ser Ile Ser Asn Val Lys
 210 215 220
 Leu Lys Ser Ala Asn Lys Glu Tyr Gln Val Glu His Lys Ser Ile Leu
 225 230 235 240
 Pro Phe Ser Thr Gln Ile Met Gln Val Lys Gly Leu Gly Ser Thr Ala
 245 250 255
 Thr Gly Thr Val Ala Tyr Glu Thr Ile Asn Asp Asn Gly Gly Ser Asp
 260 265 270
 Thr Phe Glu Ser Lys Val Asn 280
 275

<210> 9618
 <211> 866
 <212> PRT
 <213> Enterobacter cloacae

<400> 9618
 Ser Met Leu Phe Gln Arg Ser Ile Leu Cys Leu Ala Ile Cys Ala Ala
 1 5 10 15
 Phe Pro Leu His Ala Ser Glu Thr Glu Lys Lys Ala Val Asp Thr Ser
 20 25 30
 Ser Glu Thr Glu Ser Ala Ile Glu Phe Asn Asp Gln Phe Leu Ile Asp
 35 40 45
 Asn Gly Gly Gly Ile Asn Val Asp Arg Tyr Ala Tyr Gly Asn Pro Val
 50 55 60
 Leu Pro Gly Thr Tyr Arg Val Lys Val Asn Leu Asn Gly Asn Ser Lys
 65 70 75 80
 Ser Thr Val Glu Met Ala Phe Ile Asp Asn Lys Thr Pro Arg Ala Ser

Val Tyr Leu Asn Val Ser Ile Pro Phe Ser Ile Phe Asn Lys Asp Asn
 580 585 590
 Ala Gln Ser Gly Gly Phe Asn Asn Val Asn Met Ser Leu Arg Thr Asp
 595 600 605
 Leu Lys Gly Gly Thr Ser Phe Asn Ser Thr Ala Ser Gly Asn Ser Lys
 610 615 620
 Asn Ser Glu Val Ser Tyr Ser Val Ser Ala Ser Ser Ser Gly Gly Asn
 625 630 635 640
 Tyr Gly Asn Leu Asn Gln Val Ser Gly Tyr Ser Ser Trp Asn Ser Pro
 645 650 655
 Tyr Gly Pro Leu Gly Val Ser Ala Ser Phe Gly Asp Asp Asn Ser Lys
 660 665 670
 Gln Tyr Ser Ala Ser Tyr Asn Gly Gly Met Val Val His Ser Gly Gly
 675 680 685
 Val Val Phe Thr Ser Gly Ser Ile Gly Glu Thr Asp Ser Leu Ala Leu
 690 695 700
 Val Lys Ala Ser Gly Ala Thr Gly Ala Arg Leu Gly Tyr Gly Gln Ser
 705 710 715 720
 Arg Ile Asn Ser Ser Gly Tyr Gly Ile Met Pro Tyr Met Ser Ala Tyr
 725 730 735
 Arg Glu Asn Arg Val Ser Leu Asp Ile Ser Thr Leu Glu Ala Asp Val
 740 745 750
 Glu Ile Lys Asn Thr Ser Ala Val Ala Val Pro Arg Asn Gly Ser Val
 755 760 765
 Val Phe Val Asn Phe Glu Thr Asp Glu Gly Arg Ser Leu Val Leu Glu
 770 775 780
 Leu Gln Arg Ser Asp Asn Gly Phe Ile Pro Leu Gly Ala Asp Val Leu
 785 790 795 800
 Asn Glu Lys Asn Glu Ser Ile Gly Thr Val Gly Gln Ala Gly Gln Ala
 805 810 815
 Tyr Val Arg Gly Val Glu Asn Lys Gly Ala Leu Arg Val Val Trp Gly
 820 825 830
 Ser Asp Gly Ser Ser Ser Cys Thr Val His Tyr Gln Ile Pro Glu Asn
 835 840 845
 Ala Lys Lys Ala Gly Leu Thr Thr Ile Leu Ser Asn Gln Gln Cys Gln
 850 855 860
 Met
 865

<210> 9619

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 9619

Cys Ala Ser His Val Tyr Tyr His Leu Ser Ile Ile Pro Gly Thr Ser
 1 5 10 15
 Met Gln Gln Ser Pro Phe Thr Leu Tyr Gln Pro Gly Leu Val Leu Leu
 20 25 30
 Met Gly Leu Ala Gly Gly Ile Leu Pro Gly Val Gly Gln Ala Ser Ser
 35 40 45
 Gly Leu Asp Val Asn Ile Thr Ala Asn Ile Val Asn Ser Thr Cys Lys
 50 55 60
 Met Thr Val Glu Asn Asp Gly Glu Ile Tyr Leu Pro Asn Val Met Arg
 65 70 75 80
 Ser Trp Phe Tyr Asn Pro Asp Gly Ser Asp Arg Phe Thr Ala Thr Asp
 85 90 95
 Asp Ala Gly Gly Thr Pro Phe Lys Ile His Val Asp Asp Cys Tyr Gly
 100 105 110
 Asp Ser Ser Thr Ala Lys Lys Leu Ser Phe Ser Phe Ser Pro Gln Ser
 115 120 125

Gly Phe Trp Pro Gly Gln Asn Gln Val Phe Lys Ser Asp Asp Thr Ala
 130 135 140
 Ala Gly Ala Ala Lys Asn Val Gly Val Val Val Phe Ser Glu Arg Tyr
 145 150 155 160
 Lys Lys Asn Val Leu Asn Asn Asp Gly Thr Ser Lys Ile Thr Tyr Asp
 165 170 175
 Val Ser Gly Gln Asp Thr Ala Phe Leu Thr Asp Tyr Gln Phe Tyr Ala
 180 185 190
 Arg Tyr Gln Asn Ile Gly Val Val Ala Gly Gly Val Val Thr Ser Lys
 195 200 205
 Val Leu Val Asp Val Thr Tyr Glu
 210 215

<210> 9620

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 9620

Trp Met Leu Thr Lys Glu Val Leu Pro Met Thr Glu Lys Thr Val Trp
 1 5 10 15
 Gln Glu Thr Leu His Asp Gln Phe Gly Gln Tyr Phe Ala Val Asp Asn
 20 25 30
 Val Leu Tyr His Glu Lys Thr Asp His Gln Asp Leu Ile Ile Phe Glu
 35 40 45
 Asn Ala Ala Phe Gly Arg Val Met Ala Leu Asp Gly Val Val Gln Thr
 50 55 60
 Thr Glu Arg Asp Glu Phe Ile Tyr His Glu Met Met Thr His Val Pro
 65 70 75 80
 Leu Leu Ala His Gly His Ala Lys Asp Val Leu Ile Ile Gly Gly Gly
 85 90 95
 Asp Gly Ala Met Leu Arg Glu Val Ser Arg His Gln Asn Val Glu Thr
 100 105 110
 Ile Ser Met Val Glu Ile Asp Ala Gly Val Val Ser Phe Cys Arg Gln
 115 120 125
 Tyr Leu Pro Asn His Asn Ala Gly Ser Tyr Asp Asp Pro Arg Phe Asn
 130 135 140
 Leu Val Ile Asp Asp Gly Val Asn Phe Val Asn Gln Thr Thr Gln Thr
 145 150 155 160
 Phe Asp Val Ile Ile Ser Asp Cys Thr Asp Pro Ile Gly Pro Gly Ala
 165 170 175
 Ser Leu Phe Thr Ser Ser Phe Tyr Glu Gly Cys Lys Arg Cys Leu Lys
 180 185 190
 Pro Gly Gly Ile Phe Val Ala Gln Asn Gly Val Cys Phe Leu Gln Gln
 195 200 205
 Asp Glu Ala Leu Asp Ser His Arg Lys Leu Ser Thr Tyr Phe Ala Asp
 210 215 220
 Val Ser Phe Tyr Gln Ala Ala Ile Pro Thr Tyr Tyr Gly Gly Ile Met
 225 230 235 240
 Thr Phe Ala Trp Ala Thr Asp Asn Asp Val Leu Arg His Leu Ser Thr
 245 250 255
 Glu Ile Ile Gln Ala Arg Phe His Gln Ala Gly Leu Gln Cys Arg Tyr
 260 265 270
 Tyr Asn Pro Ala Ile His Thr Ala Phe Ala Leu Pro Gln Tyr Leu
 275 280 285
 Gln Asp Ala Leu Ser Ser Lys Glu Val Asn
 290 295

<210> 9621

<211> 265

<212> PRT

<213> *Enterobacter cloacae*

<400> 9621

Leu Lys Lys Leu Lys Leu His Gly Phe Asn Asn Leu Thr Lys Ser Leu
 1 5 10 15
 Ser Phe Cys Ile Tyr Asp Ile Cys Tyr Ala Lys Thr Ala Glu Glu Arg
 20 25 30
 Asp Gly Tyr Ile Ala Tyr Ile Asp Glu Leu Tyr Asn Ala Asn Arg Leu
 35 40 45
 Thr Glu Ile Leu Thr Glu Thr Cys Ser Ile Ile Gly Ala Asn Ile Leu
 50 55 60
 Asn Ile Ala Arg Gln Asp Tyr Glu Pro Gln Gly Ala Ser Val Thr Ile
 65 70 75 80
 Leu Val Ser Glu Glu Pro Val Asp Pro Gln Leu Ile Asp Lys Thr Glu
 85 90 95
 His Pro Gly Pro Leu Pro Glu Val Val Val Ala His Leu Asp Lys Ser
 100 105 110
 His Ile Cys Val His Thr Tyr Pro Glu Ser His Pro Glu Gly Gly Leu
 115 120 125
 Cys Thr Phe Arg Ala Asp Ile Glu Val Ser Thr Cys Gly Val Ile Ser
 130 135 140
 Pro Leu Asn Ala Leu Asn Tyr Leu Ile His Gln Leu Glu Ser Asp Ile
 145 150 155 160
 Val Thr Ile Asp Tyr Arg Val Arg Gly Phe Thr Arg Asp Ile Asn Gly
 165 170 175
 Met Lys His Phe Ile Asp His Glu Ile Asn Ser Ile Gln Asn Phe Met
 180 185 190
 Ser Glu Asp Met Lys Ser Leu Tyr Asp Met Met Asp Val Asn Val Tyr
 195 200 205
 Gln Glu Asn Ile Phe His Thr Lys Met Leu Leu Lys Glu Phe Asp Leu
 210 215 220
 Lys His Tyr Met Phe His Thr Lys Pro Glu Asp Leu Ser Glu Glu Glu
 225 230 235 240
 Arg Lys Val Ile Thr Asp Leu Leu Trp Lys Glu Met Arg Glu Ile Tyr
 245 250 255
 Tyr Gly Arg Asn Ile Pro Thr Val
 260 265

<210> 9622

<211> 464

<212> PRT

<213> *Enterobacter cloacae*

<400> 9622

Gln Pro His Thr Arg Phe Gln Met Glu Ala Gln Gln His Gly Asp Gln
 1 5 10 15
 Leu Lys Arg Gly Leu Lys Asn Arg His Ile Gln Leu Ile Ala Leu Gly
 20 25 30
 Gly Ala Ile Gly Thr Gly Leu Phe Leu Gly Ser Ala Ser Val Ile Gln
 35 40 45
 Ser Ala Gly Pro Gly Ile Ile Leu Gly Tyr Ala Ile Ala Gly Phe Ile
 50 55 60
 Ala Phe Leu Ile Met Arg Gln Leu Gly Glu Met Val Val Glu Glu Pro
 65 70 75 80
 Val Ala Gly Ser Phe Ser His Phe Ala Tyr Lys Tyr Trp Gly Ser Phe
 85 90 95
 Ala Gly Phe Ala Ser Gly Trp Asn Tyr Trp Val Leu Tyr Val Leu Val
 100 105 110
 Ala Met Ala Glu Leu Thr Ala Val Gly Lys Tyr Ile Gln Phe Trp Tyr
 115 120 125
 Pro Glu Ile Pro Thr Trp Ala Ser Ala Ala Ala Phe Phe Val Leu Ile

130 135 140
 Asn Ala Ile Asn Leu Thr Asn Val Lys Val Phe Gly Glu Met Glu Phe
 145 150 155 160
 Trp Phe Ala Ile Ile Lys Val Ile Ala Val Val Ala Met Ile Ile Phe
 165 170 175
 Gly Gly Trp Leu Leu Phe Ser Gly Asn Gly Gly Pro Gln Ala Thr Val
 180 185 190
 Arg Asn Leu Trp Glu Gln Gly Gly Phe Leu Pro His Gly Met Thr Gly
 195 200 205
 Leu Val Met Met Met Ala Ile Ile Met Phe Ser Phe Gly Gly Leu Glu
 210 215 220
 Leu Val Gly Ile Thr Ala Ala Glu Ala Asp Asn Pro Glu Gln Ser Ile
 225 230 235 240
 Pro Lys Ala Thr Asn Gln Val Ile Tyr Arg Ile Leu Ile Phe Tyr Val
 245 250 255
 Gly Ser Leu Ala Val Leu Leu Ser Leu Leu Pro Trp Thr Arg Val Thr
 260 265 270
 Ala Asp Thr Ser Pro Phe Val Leu Ile Phe His Glu Leu Gly Asp Thr
 275 280 285
 Phe Val Ala Asn Ala Leu Asn Val Val Val Leu Thr Ala Ala Leu Ser
 290 295 300
 Val Tyr Asn Ser Cys Val Tyr Cys Asn Ser Arg Met Leu Phe Gly Leu
 305 310 315 320
 Ala Gln Gln Gly Asn Ala Pro Lys Ala Leu Leu Thr Val Asp Lys Arg
 325 330 335
 Gly Val Pro Val Asn Thr Ile Ile Val Ser Ala Val Val Thr Ala Leu
 340 345 350
 Cys Val Leu Ile Asn Tyr Leu Ala Pro Glu Ser Ala Phe Gly Leu Leu
 355 360 365
 Met Ala Leu Val Val Ser Ala Leu Val Ile Asn Trp Ala Met Ile Ser
 370 375 380
 Leu Ala His Ile Lys Phe Arg Arg Ala Lys Gln Gln Gln Gly Val Thr
 385 390 395 400
 Thr Arg Phe Pro Ala Leu Leu Tyr Pro Leu Gly Asn Trp Val Cys Leu
 405 410 415
 Leu Phe Met Ala Ala Val Leu Val Ile Met Leu Ile Thr Pro Gly Met
 420 425 430
 Ala Ile Ser Val Tyr Leu Ile Pro Val Trp Ile Ala Ile Leu Gly Val
 435 440 445
 Gly Tyr Met Val Lys Gln Lys Asn Ala Lys Thr Val Lys Ala His
 450 455 460

<210> 9623

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 9623

Thr Ile Ile Arg 5 Ser Lys Pro Leu Arg Leu Asn Lys Glu Ser Arg
 1 10 15
 Met Gln Thr Trp Pro Asn Pro Phe Ile Glu Gln Arg Ala Asp Pro Tyr
 20 25 30
 Ile Leu Arg His Asp Gly Gln Tyr Phe Ile Ala Ser Val Pro Glu
 35 40 45
 Tyr Asp Arg Leu Ala Ile Arg Arg Ala Asp Ser Leu Glu Gly Leu Arg
 50 55 60
 Asp Ala Glu Glu Val Val Trp Arg Lys Pro Asp Thr Gly Pro Met
 65 70 75 80
 Ser Gln Leu Ile Trp Ala Pro Glu Leu His His Ile Asp Gly Ser Trp
 85 90 95
 Tyr Ile Tyr Phe Ala Ala Thr His Thr Gln Ala Leu Asp His Leu Gly

100 105 110
 Met Phe Gln His Arg Met Phe Ala Ile Glu Cys Ala Asp Arg Asp Pro
 115 120 125
 Leu Thr Gly Thr Trp Val Glu Lys Gly Gln Ile Lys Thr Pro Phe Asp
 130 135 140
 Thr Phe Ala Leu Asp Ala Thr Thr Phe Val His Gln Gly Lys Arg Trp
 145 150 155 160
 Tyr Leu Trp Ala Gln Lys Ala Pro Asp Ile Ser Gly Asn Ser Asn Leu
 165 170 175
 Tyr Leu Cys Glu Met Glu Asn Pro Trp Thr Leu Lys Gly Glu Pro Val
 180 185 190
 Met Leu Ser Lys Pro Glu Tyr Asp Trp Glu Cys Arg Gly Phe Trp Val
 195 200 205
 Asn Glu Gly Pro Ala Val Leu Phe His Gly Asp Lys Leu Phe Ile Ser
 210 215 220
 Tyr Ser Ala Ser Ala Thr Asp Glu Asn Tyr Cys Met Gly Leu Met Trp
 225 230 235 240
 Ala Asp Leu Asn Ala Asp Pro Gln Asn Pro Ala Asn Trp His Lys Ser
 245 250 255
 Pro Arg Pro Val Phe Val Thr Ser Tyr Glu Asn Arg Gln Tyr Gly Pro
 260 265 270
 Gly His Asn Ser Phe Thr Gln Thr Pro Glu Gly Glu Asp Val Leu Val
 275 280 285
 Tyr His Ala Arg Asn Tyr Thr Glu Ile Glu Gly Asp Pro Leu Tyr Asp
 290 295 300
 Pro Asn Arg His Thr Arg Leu Lys Leu Ile Arg Trp Asn Glu Asn Gly
 305 310 315 320
 Met Pro Glu Phe Gly Ile Pro Pro Ala Asp Thr Pro
 325 330

<210> 9624

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 9624

Asn Ser Met Asn Phe Ser Pro Phe Ser Ser Thr Thr Val Pro Pro Leu
 1 5 10 15
 Ser Ser Trp Pro Ala Ser Met Pro Pro Ser Ile Thr Lys Ser Ala Pro
 20 25 30
 Pro Pro Lys Ala Phe Ala Thr Ser Pro Gly Met Val Gln Pro Pro Ser
 35 40 45
 Leu Met Ile Trp Pro Pro Arg Pro Cys Ala Ala Ser Ala His Ser Ile
 50 55 60
 Thr Ala Asp Ser Cys Gly
 65 70

<210> 9625

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 9625

Gly Gly Ser Leu Ser Arg Leu Val Thr Val Asp Met Ser Glu Ser His
 1 5 10 15
 Tyr Ile Gly Arg Phe Ala Pro Ser Pro Ser Gly Glu Leu His Phe Gly
 20 25 30
 Ser Leu Ile Ala Ala Leu Gly Ser Tyr Leu Gln Ala Arg Ala Arg Gln
 35 40 45
 Gly Gln Trp Leu Val Arg Ile Glu Asp Ile Asp Pro Pro Arg Glu Val
 50 55 60

Pro Gly Ala Ala Glu Thr Ile Leu Arg Gln Leu Glu His Tyr Gly Leu
 65 70 75 80
 His Trp Asp Gly Asp Val Leu Trp Gln Ser Gln Arg His Asp Ala Tyr
 85 90 95
 Arg Glu Arg Leu Ala Trp Leu Ala Glu Gln Gly Leu Ser Tyr Asn Cys
 100 105 110
 Thr Cys Thr Arg Ala Arg Ile Gln Ser Val Gly Gly Val Tyr Asp Gly
 115 120 125
 His Cys Arg Thr Arg His Asn Gly Pro Glu Asn Ala Ala Val Arg Leu
 130 135 140
 Ile Gln Arg Ser Pro Val Thr Gln Phe Thr Asp Val Val Ser Gly Thr
 145 150 155 160
 Ile Gln Ala Asp Glu Arg Leu Ala Arg Glu Asp Phe Ile Ile His Arg
 165 170 175
 Arg Asp Gly Leu Phe Ala Tyr Asn Leu Ala Val Val Val Asp Asp His
 180 185 190
 Phe Gln Gly Val Thr Glu Ile Val Arg Gly Ala Asp Leu Val Glu Pro
 195 200 205
 Thr Val Arg Gln Ile Ser Leu Tyr Gln Gln Phe Gly Trp Thr Val Pro
 210 215 220
 Asp Tyr Ile His Leu Pro Leu Ala Val Asn Asp Gln Gly Asn Lys Leu
 225 230 235 240
 Ser Lys Gln Asn His Ala Pro Ala Leu Pro Asp Gly Asp Pro Arg Pro
 245 250 255
 Val Leu Ile Asp Ala Leu Arg Phe Leu Asn Gln Asn Val Thr Gln Glu
 260 265 270
 Trp Gln Asp Leu Ser Leu Asp Glu Leu Leu Lys Thr Ala Ile Ala Asp
 275 280 285
 Trp Ala Leu Ile Ala Val Pro Lys Ile Gln His Ser Gln Met Arg Cys
 290 295 300
 Ala Glu Leu
 305

<210> 9626

<211> 480

<212> PRT

<213> Enterobacter cloacae

<400> 9626

Leu Ala Ala Phe Leu Ile Thr Lys His Thr Thr Arg Cys Thr Ile Phe
 1 5 10 15
 Thr Arg Val Ala Asn Phe Cys Arg Lys Val Leu Ser Arg Glu Glu Ser
 20 25 30
 Met Ala Asn Asp Ala Ile Ala Gln Pro His Met Ser Val Ile Pro Arg
 35 40 45
 Glu Gln His Asn Ile Ser Arg Lys Asp Ile Ser Glu Asn Ala Leu Lys
 50 55 60
 Val Leu Tyr Arg Leu Asn Lys Ala Gly Tyr Glu Ala Tyr Leu Val Gly
 65 70 75 80
 Gly Gly Val Arg Asp Leu Leu Leu Gly Lys Lys Pro Lys Asp Phe Asp
 85 90 95
 Val Thr Thr Ser Ala Thr Pro Glu Gln Val Arg Lys Leu Phe Arg Asn
 100 105 110
 Cys Arg Leu Val Gly Arg Arg Phe Arg Leu Ala His Val Met Phe Gly
 115 120 125
 Pro Glu Ile Ile Glu Val Ala Thr Phe Arg Gly His His Glu Ala Gly
 130 135 140
 Val Asn Asp Arg Thr Thr Ser Gln Arg Gly Gln Asn Gly Met Leu Leu
 145 150 155 160
 Arg Asp Asn Ile Phe Gly Ser Ile Glu Glu Asp Ala Gln Arg Arg Asp
 165 170 175

Phe Thr Ile Asn Ser Leu Tyr Tyr Ser Val Ala Asp Phe Thr Val Arg
 180 185 190
 Asp Tyr Val Gly Gly Met Gln Asp Leu Lys Asp Gly Leu Ile Arg Leu
 195 200 205
 Ile Gly Thr Pro Glu Thr Arg Tyr Arg Glu Asp Pro Val Arg Met Leu
 210 215 220
 Arg Ala Val Arg Phe Ala Ala Lys Leu Asn Met Arg Ile Ser Pro Glu
 225 230 235 240
 Thr Ala Glu Pro Ile Pro Arg Leu Ala Thr Leu Ile Asn Asp Val Pro
 245 250 255
 Pro Ala Arg Leu Phe Glu Glu Ser Leu Lys Leu Leu Gln Ala Gly Tyr
 260 265 270
 Gly Phe Glu Thr Tyr Asn Leu Leu Arg Glu Tyr Asn Leu Phe Gln Pro
 275 280 285
 Leu Phe Pro Thr Ile Thr Arg Tyr Phe Thr Glu Asn Gly Asp Ser Ala
 290 295 300
 Met Glu Arg Met Ile Ala Gln Val Leu Lys Asn Thr Asp Thr Arg Ile
 305 310 315 320
 His Asn Asp Met Arg Val Asn Pro Ala Phe Leu Phe Ala Ala Met Phe
 325 330 335
 Trp Tyr Pro Leu Leu Glu Thr Ala Gln Arg Ile Thr Gln Glu Ser Gly
 340 345 350
 Leu Ala Tyr Tyr Asp Ala Phe Ala Leu Ala Ala Asn Asp Val Leu Asp
 355 360 365
 Glu Gly Cys Arg Thr Leu Ala Ile Pro Lys Arg Ile Thr Thr Leu Val
 370 375 380
 Arg Asp Ile Trp Gln Leu Gln Leu Arg Met Ser Arg Arg Gln Gly Lys
 385 390 395 400
 Arg Ala Trp Lys Leu Met Glu His Pro Lys Phe Arg Ala Ala Phe Asp
 405 410 415
 Leu Leu Ser Leu Arg Ala Glu Val Glu Arg Asn Gln Glu Leu Gln Arg
 420 425 430
 Leu Ala Gln Trp Trp Gly Glu Phe Gln Val Ser Ala Pro Glu Gln
 435 440 445
 Lys Asp Met Leu Thr Asp Leu Asp Asp Glu Pro Ala Pro Arg Arg Arg
 450 455 460
 His Arg Arg Pro Arg Lys Arg Ala Pro Arg Arg Glu Gly Thr Ala
 465 470 475 480

<210> 9627

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 9627

Ile Tyr Leu Arg Val Ile Ser Ala Gly Lys Arg Ser Asn Ile Met Lys
 1 5 10 15
 Phe Asn Ser Thr Phe Ile Ala Leu Ser Val Ser Ala Leu Leu Phe Ser
 20 25 30
 Gly Met Ala Ser Ala Ala Ile Thr Gly Thr Pro Ser Val Glu Leu Thr
 35 40 45
 Ile Lys Ser Lys Ile Val Ser Gly Thr Cys Thr Ala Lys Val Leu Asn
 50 55 60
 Asp Ala Gly Thr Ala Ser Thr Glu Ile Ala Phe Gly Asp Val Tyr Lys
 65 70 75 80
 Ser Asp Leu Val Asn Lys Thr Arg Val Glu Pro Leu Lys Ile Ser Phe
 85 90 95
 Thr Asn Cys Ser Gly Val Thr Arg Ala Thr Val Ser Ala Ala Lys Gly
 100 105 110
 Ala Gly Gly Glu Cys Ser Gly Val Asn Lys Thr Gly Asp Ser Tyr Ser
 115 120 125


```
<210> 9628
<211> 256
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9629
<211> 808
<212> PRT
<213> Enterobacter cloacae
```

<400> 9629
Gln Ile Ile Asn Lys Thr Asp Glu Tyr Phe Ser Met Ala Glu Thr Lys

1	5					10					15				
Thr	Lys	Gln	Pro	Arg	Leu	Leu	Val	Thr	Leu	Thr	Ala	Ala	Phe	Ala	Ala
Phe	Cys	Ala	20	Tyr	Leu	Leu	Ile	Thr	25	Gly	Gly	Val	Trp	Leu	Val
			35	40	45	50	55	60	65	70	75	80	85	90	95
Gly	Gly	Ser	Trp	Tyr	Tyr	Pro	Ile	Ala	Gly	Leu	Val	Met	Val	Gly	Val
Thr	Val	Leu	Leu	Leu	Arg	Arg	Lys	Gln	Ser	Ala	Leu	Trp	Leu	Tyr	Ala
Ala	Leu	Leu	Leu	Ala	Thr	Met	Ile	Trp	Gly	Val	Trp	Glu	Val	Gly	Phe
Asp	Phe	Trp	100	Leu	Thr	Pro	Arg	Ser	Asp	Ile	Leu	Val	Phe	Phe	Gly
			115	120	125	130	135	140	145	150	155	160	165	170	175
Ser	Gly	Ala	Val	Ala	Gly	Leu	Val	Val	Ala	Leu	Leu	Ile	Ser	Gly	Gly
Ile	Leu	Thr	Trp	Ala	Gly	Phe	Asn	Asp	Pro	Gln	Glu	Ile	Asn	Gly	Thr
Leu	Asn	Ala	Glu	Ser	Thr	Pro	Ala	Ala	Ala	Ile	Ser	Gln	Val	Ala	Asp
Gly	Asp	Trp	180	Ala	Tyr	Gly	Arg	Asn	Gln	Glu	Gly	Gln	Arg	Tyr	Ser
			195	200	205	210	215	220	225	230	235	240	245	250	255
Pro	Leu	Lys	Gln	Ile	Asn	Ala	Asp	Asn	Val	Lys	Asn	Leu	Lys	Glu	Ala
Trp	Val	Phe	Arg	Thr	Gly	Asp	Leu	Lys	Met	Pro	Asn	Asp	Pro	Gly	Glu
Leu	Thr	Asn	Glu	Val	Thr	Pro	Ile	Lys	Val	Gly	Asn	Met	Leu	Tyr	Leu
Cys	Thr	Ala	His	Gln	Arg	Leu	Phe	Ala	Leu	Asp	Ala	Ala	Thr	Gly	Lys
Glu	Lys	Trp	260	Phe	Asp	Pro	Gln	Leu	Asn	Ser	Asn	Pro	Ser	Phe	Gln
			275	280	285	290	295	300	305	310	315	320	325	330	335
His	Ile	Thr	Cys	Arg	Gly	Val	Ser	Tyr	His	Glu	Ala	Arg	Ala	Asp	Asn
Ala	Ser	Pro	Glu	Val	Ile	Ala	Asp	Cys	Pro	Arg	Arg	Ile	Met	Leu	Pro
Val	Asn	Asp	Gly	Arg	Leu	Phe	Ala	Ile	Asn	Ala	Glu	Thr	Gly	Lys	Leu
Cys	Glu	Thr	Phe	Ala	Asn	Lys	Gly	Ile	Leu	Asn	Leu	Gln	Thr	Asn	Met
Pro	Asp	Thr	340	Pro	Gly	Leu	Tyr	Glu	Pro	Thr	Ser	Pro	Pro	Ile	Ile
			355	360	365	370	375	380	385	390	395	400	405	410	415
Thr	Asp	Lys	Thr	Ile	Val	Ile	Ala	Gly	Ser	Val	Thr	Asp	Asn	Phe	Ser
Thr	Arg	Glu	Thr	Ser	Gly	Val	Ile	Arg	Gly	Phe	Asp	Val	Asn	Thr	Gly
Lys	Leu	Leu	Trp	Ala	Phe	Asp	Pro	Gly	Ala	Lys	Asp	Pro	Asn	Ala	Ile
Pro	Ser	Asp	Glu	His	Thr	Phe	Thr	Phe	Asn	Ser	Pro	Asn	Ser	Trp	Ala
Pro	Ala	Ala	420	Tyr	Asp	Ala	Lys	Leu	Asp	Leu	Val	Tyr	Leu	Pro	Met
			435	440	445	450	455	460	465	470	475	480	485	490	495
Val	Thr	Thr	Pro	Asp	Ile	Trp	Gly	Gly	Asn	Arg	Thr	Pro	Glu	Gln	Glu
Arg	Tyr	Ala	Ser	Ser	Ile	Val	Ala	Leu	Asn	Ala	Thr	Thr	Gly	Lys	Leu
Ala	Trp	Ser	Tyr	Gln	Thr	Val	His	His	Asp	Leu	Trp	Asp	Met	Asp	Met
Pro	Ser	Gln	Pro	Thr	Leu	Ala	Asp	Ile	Thr	Val	Asn	Gly	Lys	Thr	Val

Pro Val Ile Tyr Ala Pro Ala Lys Thr Gly Asn Ile Phe Val Leu Asp
 500 505 510
 Arg Ser Asn Gly Lys Leu Val Val Pro Ala Pro Glu Lys Pro Val Pro
 515 520 525
 Gln Gly Ala Ala Lys Gly Xaa Tyr Val Thr Lys Thr Gln Pro Phe Ser
 530 535 540
 Asp Leu Ser Phe Arg Pro Lys Lys Asp Leu Ser Gly Ala Asp Met Trp
 545 550 555 560
 Gly Ala Thr Met Phe Asp Gln Leu Val Cys Arg Val Met Phe His Gln
 565 570 575
 Leu Arg Tyr Glu Gly Ile Phe Thr Pro Pro Ser Glu Gln Gly Thr Leu
 580 585 590
 Val Phe Pro Gly Asn Leu Gly Met Phe Glu Trp Gly Gly Ile Ser Val
 595 600 605
 Asp Pro Asn Arg Gln Val Ala Ile Ala Asn Pro Met Ala Leu Pro Phe
 610 615 620
 Val Ser Arg Leu Ile Pro Arg Gly Pro Gly Asn Pro Met Glu Gln Pro
 625 630 635 640
 Lys Asp Ala Lys Gly Ser Gly Thr Glu Ala Gly Ile Gln Pro Gln Tyr
 645 650 655
 Gly Val Pro Tyr Gly Val Thr Leu Asn Pro Phe Leu Ser Pro Phe Gly
 660 665 670
 Leu Pro Cys Lys Gln Pro Ala Trp Gly Tyr Ile Ser Gly Leu Asp Leu
 675 680 685
 Lys Thr Asn Lys Ile Val Trp Lys Lys Arg Ile Gly Thr Pro Gln Asp
 690 695 700
 Ser Met Pro Phe Pro Met Pro Val Pro Val Pro Phe Asn Met Gly Met
 705 710 715 720
 Pro Met Leu Gly Gly Pro Ile Ser Thr Ala Gly Asn Val Leu Phe Ile
 725 730 735
 Ala Ala Thr Ala Asp Asn Tyr Leu Arg Ala Tyr Asn Met Thr Asn Gly
 740 745 750
 Glu Lys Leu Trp Gln Gly Arg Leu Pro Ala Gly Gly Gln Ala Thr Pro
 755 760 765
 Met Thr Tyr Glu Val Asn Gly Lys Gln Tyr Val Val Ile Ser Ala Gly
 770 775 780
 Gly His Gly Ser Phe Gly Thr Lys Met Gly Asp Tyr Ile Val Ala Tyr
 785 790 795 800
 Ala Leu Pro Asp Asp Ala Lys
 805

<210> 9630

<211> 212

<212> PRT

<213> Enterobacter cloacae

2

<400> 9630

Met Arg Leu Arg Ala Ser Gly Ala Ser Asn Ser Gly Met Gly Lys Ala
 1 5 10 15
 Gly Leu Ser Ala Ala Lys Thr Ala Arg Leu Gln Arg Gly Ile Ala Leu
 20 25 30
 Ala Thr Pro Ser Ala Ala Glu Asn Phe Lys Lys Ser Arg Arg Cys Met
 35 40 45
 Cys Ile Ser Leu Phe Pro Ala Gly Asp Leu Leu Ser Ile Asn Pro Pro
 50 55 60
 Leu Thr Gly Arg Ser Ser Thr Ala Ala Ile Ile Lys Ile Val Gly Leu
 65 70 75 80
 Ala Ser Ser Met Leu Thr Leu Ile Phe Arg Asp Ala Val Val Lys Ala
 85 90 95
 Met Lys Thr Phe Phe Arg Thr Ile Leu Phe Ala Ser Leu Met Ala Met
 100 105 110

Cys Ala Asn Ser Tyr Ala Leu Ser Glu Asn Glu Ala Glu Asp Met Ala
 115 120 125
 Asp Leu Thr Ala Val Phe Val Phe Leu Lys Asn Asp Cys Gly Tyr Gln
 130 135 140
 Asn Leu Pro Asn Gly Gln Ile Arg Arg Ala Leu Val Phe Phe Ala Gln
 145 150 155 160
 Gln Asn Gln Trp Asp Leu Ser Asn Tyr Asp Ser Phe Asp Met Lys Ala
 165 170 175
 Leu Gly Glu Asp Ser Tyr Arg Asp Leu Ser Gly Ile Gly Ile Pro Thr
 180 185 190
 Ala Lys Lys Cys Lys Ala Leu Ala Arg Asp Ser Leu Ser Leu Ala
 195 200 205
 Tyr Val Lys
 210

<210> 9631

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 9631

Tyr Ser Arg Gln Gln Gln Arg Leu Thr Ala Leu His Ser Ser Arg Trp
 1 5 10 15
 Ser Gln Ser Met Lys Leu Pro Phe Lys Pro His Leu Leu Val Leu Leu
 20 25 30
 Cys Ser Ala Gly Leu Phe Ala Ala Ser Gly Val Met Phe Val Lys Ser
 35 40 45
 Arg Ala Thr Glu Pro Ala Pro Ala Pro Ala Pro Val Ala Pro Gln Leu
 50 55 60
 Pro Asp Pro Ala Ala Gln Pro Ala Pro Val Ala Thr Pro Ala Tyr Thr
 65 70 75 80
 Ala Ala Gln Ile Asp Gln Trp Thr Ala Pro Ile Ala Leu Tyr Pro Asp
 85 90 95
 Ala Leu Leu Ser Gln Ile Leu Met Ala Ser Thr Tyr Pro Ala Ser Val
 100 105 110
 Ile Gln Ala Ala Gln Trp Ser Lys Asp Asn Pro Lys Met Gln Gly Asp
 115 120 125
 Ala Ala Ile Gln Ala Val Ser Gly Gln Pro Trp Asn Ala Ser Val Lys
 130 135 140
 Ser Leu Val Ala Phe Pro Gln Leu Met Ser Leu Met Gly Glu Asn Pro
 145 150 155 160
 Ser Trp Val Gln Ser Leu Gly Asp Ala Phe Leu Ala Gln Pro Lys Asp
 165 170 175
 Val Met Asp Ser Val Gln Arg Leu Arg Leu Leu Ala Gln Gln Thr Gly
 180 185 190
 Thr Leu Gln Ser Thr Pro Gln Gln Thr Val Thr Thr Val Lys Lys Ser
 195 200 205
 Ala Pro Ala Ser Ala Ser Thr Ala Ala Thr Ser Thr Ser Ala Ser Pro
 210 215 220
 Thr Val Ile Lys Ile Glu Pro Ala Asp Pro Gln Val Val Tyr Val Pro
 225 230 235 240
 Thr Tyr Asn Pro Ser Thr Val Tyr Gly Thr Trp Pro Asn Ala Ser Tyr
 245 250 255
 Pro Pro Val Tyr Leu Pro Pro Ser Pro Gly Gln Gln Phe Thr Asn Ser
 260 265 270
 Phe Val Arg Gly Phe Gly Tyr Ser Leu Gly Val Ala Thr Thr Tyr Ala
 275 280 285
 Leu Phe Ser Asn Ile Asp Trp Asp Asp Asp Asp His His His Asp
 290 295 300
 His Asp Asp Asp His His Gly Gly Tyr Ser His Asn Gly Asp Asn Ile
 305 310 315 320

Asn Ile Asn Val Asn Asn Phe Asn Lys Ile Thr Gly Glu His Arg Thr
 325 330 335
 Asp Asn His Gln Val Trp Gln His Asn Pro Ala Tyr Arg Asn Gly Val
 340 345 350
 Pro Tyr Ala Asn Ser Gln Leu Ala Ser Arg Tyr His Gln Thr Ser Val
 355 360 365
 Pro Gly Gly Leu Ser Ala Thr Arg Gln Gln Pro Val Asn Arg Asp Ser
 370 375 380
 Gln Arg Gln Ala Ala Met Ala Gln Val Gln Gln Ser Thr Gly Lys Thr
 385 390 395 400
 Leu Thr Gln Leu Gln His Gly Asp Ala His Phe Pro Gln His Ser Ala
 405 410 415
 Ser Ala Gln Gln Leu Lys Gln Leu Ser Gln Arg Ser Asn Tyr Arg Gly
 420 425 430
 Tyr Asp Ser Ala Arg Pro His Ala Gln Gln Met Asn Asn Thr Leu Ala
 435 440 445
 Gln Thr Arg Arg Pro Thr Gln Val Gln His Gln Pro Leu Arg Ala Asn
 450 455 460
 Ala Leu Ser Gly Asn Asp Ser Arg Ser Ala Ser Trp Gln Ala Gln His
 465 470 475 480
 Gln Arg Gly Leu Gln Ser Arg Gln His Ala Ser Leu Asn Ser Glu Gln
 485 490 495
 Arg Ala Ser Phe Arg Gln Gln Leu Ser Glu His His Thr Glu His His
 500 505 510
 Glu Phe His Arg Arg
 515

<210> 9632

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 9632

Gly Ala Asp Met Asn Arg Gln Gln Gly Phe Thr Leu Ile Glu Leu Met
 1 5 10 15
 Val Val Ile Gly Ile Ile Ala Ile Leu Ser Ala Ile Gly Val Pro Ala
 20 25 30
 Tyr Gln Asn Tyr Leu Arg Lys Ala Ala Leu Thr Asp Met Leu Gln Thr
 35 40 45
 Phe Ile Pro Tyr Arg Thr Ala Ile Glu Leu Cys Ala Leu Asp Arg Gly
 50 55 60
 Gly Val Asp Arg Cys Asp Ala Gly Thr Asn Gly Ile Pro Ser Pro Thr
 65 70 75 80
 Thr Thr Arg Tyr Val Ser Ala Met Ser Val Ala Lys Gly Ile Val Ser
 85 90 95
 Leu Thr Gly Gln Glu Ser Leu Asn Gly Leu Glu Val Leu Met Thr Pro
 100 105 110
 Ile Trp Ser Asp Gly Asn Gly Met Thr Gly Trp Thr Arg Asp Cys Lys
 115 120 125
 Ile Ala Ser Asp Thr Ala Leu Arg Gln Ala Cys Glu Asp Val Phe Arg
 130 135 140
 Phe Asp Asn Asn
 145

<210> 9633

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 9633

Gln Glu Trp Thr Met Asn Thr Glu Gln Leu Met Thr Leu Cys Gln Arg

1				5				10					15				
His	His	Ala	Leu	Leu	Leu	Ala	Ser	Asp	Thr	Glu	Met	Ile	Ser	Ile	Ala		
			20					25					30				
Val	Val	Gly	Asn	Pro	Ala	Ser	Glu	Leu	Met	Glu	Ala	Leu	Arg	Phe	Ala		
		35					40					45					
Thr	Gln	Lys	Arg	Ile	Asp	Ile	Glu	Cys	Trp	Thr	Ala	Glu	Arg	Met	Glu		
		50				55					60						
Lys	Arg	Leu	Gln	Ser	Leu	Ser	Ser	Ser	His	Leu	Pro	Gly	Ile	Val	Pro		
65					70					75				80			
Asn	Ser	Ala	Ala	Asp	Val	Leu	Ser	Thr	Thr	Leu	Gln	Gln	Ala	Val	Asn		
				85					90					95			
Gln	Arg	Ala	Ser	Asp	Ile	His	Ile	Glu	Pro	Thr	Glu	His	Gly	Tyr	Gln		
			100					105					110				
Ile	Arg	Leu	Arg	Ile	Asp	Gly	Val	Leu	Tyr	Pro	Gln	Pro	Pro	Ile	Ser		
		115					120					125					
Ala	Ala	Leu	Gly	Thr	Thr	Leu	Ala	Ala	Arg	Leu	Lys	Val	Leu	Gly	Gln		
		130				135					140						
Leu	Asp	Ile	Ala	Glu	Arg	Arg	Leu	Pro	Gln	Asp	Gly	Gln	Phe	Thr	Val		
145					150					155				160			
Glu	Leu	Ala	Ser	Val	Pro	Val	Ser	Phe	Arg	Ile	Ala	Thr	Leu	Pro	Cys		
			165						170					175			
Ser	Gly	Gly	Glu	Lys	Ile	Val	Leu	Arg	Leu	Leu	His	Gln	Val	Gln	Gln		
			180					185					190				
Ala	Leu	Glu	Leu	Glu	Gln	Leu	Gly	Met	Ser	Ala	Asp	Gln	Gln	Ala	Arg		
		195					200					205					
Phe	Ala	Glu	Ala	Leu	Asn	Ser	Pro	Gln	Gly	Leu	Ile	Leu	Val	Thr	Gly		
		210				215					220						
Pro	Thr	Gly	Ser	Gly	Lys	Thr	Val	Thr	Leu	Tyr	Ser	Ala	Leu	Gln	Ala		
225					230					235				240			
Arg	Asn	Thr	Pro	Asp	Val	Asn	Ile	Cys	Ser	Val	Glu	Asp	Pro	Val	Glu		
			245						250					255			
Ile	Pro	Leu	Ala	Gly	Leu	Asn	Gln	Thr	Gln	Ile	Asn	Pro	Arg	Ala	Gly		
			260					265					270				
Leu	Thr	Phe	Gln	Ser	Val	Leu	Arg	Ala	Leu	Leu	Arg	Gln	Asp	Pro	Asp		
		275					280					285					
Ile	Ile	Met	Val	Gly	Glu	Ile	Arg	Asp	Gly	Glu	Thr	Ala	Glu	Ile	Ala		
		290				295					300						
Ile	Lys	Ala	Ala	Gln	Thr	Gly	His	Leu	Val	Leu	Ser	Thr	Leu	His	Thr		
305					310					315				320			
Asn	Ser	Thr	Thr	Glu	Thr	Leu	Val	Arg	Leu	Gln	Gln	Met	Gly	Val	Ala		
			325						330					335			
Arg	Trp	Met	Ile	Ser	Ser	Ala	Leu	Ser	Met	Val	Ile	Ala	Gln	Arg	Leu		
			340					345					350				
Val	Arg	Arg	Leu	Cys	Pro	Tyr	Cys	Arg	Gln	Glu	Ala	Ser	Arg	His	Thr		
		355						360				365					
Glu	Leu	Pro	Arg	Thr	Leu	Trp	Pro	Arg	Pro	Leu	Pro	Arg	Trp	Gln	Pro		
		370				375					380						
Thr	Gly	Cys	Asp	Arg	Cys	Tyr	His	Gly	Phe	Tyr	Gly	Arg	Val	Ala	Ile		
385					390					395				400			
Phe	Glu	Val	Leu	Val	Ile	Asp	Asp	Thr	Leu	Arg	Gln	Ala	Ile	Ala	Ser		
			405						410					415			
Gly	Ala	Ser	Thr	Glu	Val	Ile	Gly	Ser	Ser	Ala	Arg	Gln	Ala	Gly	Met		
			420					425					430				
Thr	Ser	Leu	Phe	Glu	His	Gly	Cys	Met	Ala	Val	Glu	Gln	Gly	Leu	Thr		
		435					440					445					
Thr	Leu	Glu	Glu	Leu	Leu	Arg	Val	Leu	Gly	Met	Pro	Asp	Gly	Cys			
		450				455					460						

<210> 9634

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 9634

```

Arg Arg Thr Arg Cys His Cys Ile Gly Cys Cys Ser Ser Ala Arg Ala
1      5      10      15
Val Ser Asp Leu Arg Arg Ala Gly Arg Cys Thr Gly Lys Thr Ile Met
20      25      30
Ser Thr His Ile Leu Phe Glu His Pro Leu Asn Glu Lys Met Arg Thr
35      40      45
Trp Leu Arg Ile Glu Phe Leu Ile Gln Gln Leu Ser Gln His Leu Pro
50      55      60
Val Asn Asp His Ala Thr Ala Leu His Phe Phe Arg Asn Val Gly Asp
65      70      75      80
Leu Leu Asp Val Ile Glu Arg Gly Asp Val Arg Thr Glu Leu Leu Lys
85      90      95
Glu Leu Glu Arg Gln Gln Arg Lys Leu Gln Ala Trp Ala Glu Val Pro
100     105     110
Gly Val Asp Gln Ser Arg Ile Asp Ala Leu Arg Gln Gln Leu Lys Asn
115     120     125
Ser Ser Thr Thr Leu Met Ala Ala Pro Arg Val Gly Gln Phe Leu Arg
130     135     140
Glu Asp Arg Leu Ile Ala Leu Val Arg Gln Arg Leu Ser Ile Pro Gly
145     150     155     160
Gly Cys Cys Ser Phe Asp Leu Pro Thr Leu His Met Trp Leu His Met
165     170     175
Pro Gln Glu Gln Arg Asp Arg Gln Val Asn Ser Trp Leu Gly Ser Leu
180     185     190
Glu Pro Met Asn Gln Thr Leu Ser Leu Ile Leu Asp Leu Val Arg Asn
195     200     205
Ser Ala Pro Phe Arg Lys Gln Thr Ser Leu Asn Gly Phe Tyr Gln Asp
210     215     220
Asn Gly Asp Asp Ala Asp Leu Leu Arg Leu Asn Leu Ser Leu Ser Glu
225     230     235     240
Gln Leu Tyr Pro Gln Ile Ser Gly His Lys Ser Arg Phe Ala Ile Arg
245     250     255
Phe Met Pro Leu Asp Ser Glu His Gly Thr Val Pro Glu Arg Leu Asp
260     265     270
Phe Glu Leu Ala Cys Cys
275

```

<210> 9635

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 9635

```

Gly Val Pro Met Ser Asp Val Thr Thr Val Asn Cys Pro Thr Cys Gly
1      5      10      15
Lys Thr Val Val Trp Gly Glu Val Ser Pro Phe Arg Pro Phe Cys Cys
20      25      30
Lys Arg Cys Gln Leu Ile Asp Leu Gly Glu Trp Ala Ala Glu Glu Lys
35      40      45
Arg Ile Pro Ser Glu Gly Asp Leu Ser Asp Ser Asp Asp Trp Ser Glu
50      55      60
Asn Gln Gln
65

```

<210> 9636

<211> 913

<212> PRT

<213> Enterobacter cloacae

<400> 9636

Met	Arg	Gly	Ser	Phe	Gln	Pro	Arg	Val	Arg	Leu	Leu	Leu	Ile	Lys	Leu
1				5					10					15	
Leu	Thr	Arg	Val	Phe	Gly	Ser	Arg	Asn	Asp	Arg	Thr	Leu	Arg	Arg	Met
			20					25					30		
Arg	Lys	Ala	Val	Asn	Val	Ile	Asn	Gly	Met	Glu	Pro	Ala	Met	Glu	Lys
			35				40					45			
Leu	Ser	Asp	Asp	Glu	Leu	Lys	Ala	Lys	Thr	Ala	Glu	Phe	Arg	Ala	Arg
	50					55					60				
Leu	Glu	Lys	Gly	Glu	Thr	Leu	Glu	Ser	Leu	Ile	Pro	Glu	Ala	Phe	Ala
65					70					75					80
Val	Val	Arg	Glu	Ala	Ser	Lys	Arg	Val	Phe	Gly	Met	Arg	His	Phe	Asp
				85					90					95	
Val	Gln	Leu	Leu	Gly	Gly	Met	Val	Leu	Asn	Glu	Arg	Cys	Ile	Ala	Glu
				100				105					110		
Met	Arg	Thr	Gly	Glu	Gly	Lys	Thr	Leu	Thr	Ala	Thr	Leu	Pro	Ala	Tyr
			115				120					125			
Leu	Asn	Ala	Leu	Thr	Gly	Lys	Gly	Val	His	Val	Val	Thr	Val	Asn	Asp
	130					135					140				
Tyr	Leu	Ala	Gln	Arg	Asp	Ala	Glu	Asn	Asn	Arg	Pro	Leu	Phe	Glu	Phe
145					150					155					160
Leu	Gly	Met	Thr	Val	Gly	Ile	Asn	Met	Ser	Gly	Leu	Pro	Ala	Pro	Ala
				165					170					175	
Lys	Arg	Glu	Ala	Tyr	Asn	Ala	Asp	Ile	Thr	Tyr	Gly	Thr	Asn	Asn	Glu
			180					185					190		
Tyr	Gly	Phe	Asp	Tyr	Leu	Arg	Asp	Asn	Met	Ala	Phe	Ser	Pro	Glu	Glu
		195					200					205			
Arg	Val	Gln	Arg	Lys	Leu	His	Tyr	Ala	Leu	Val	Asp	Glu	Val	Asp	Ser
	210					215					220				
Ile	Leu	Ile	Asp	Glu	Ala	Arg	Thr	Pro	Leu	Ile	Ile	Ser	Gly	Pro	Ala
225					230					235					240
Glu	Asp	Ser	Ser	Glu	Met	Tyr	Arg	Lys	Val	Asp	Lys	Ile	Ile	Pro	His
				245					250					255	
Leu	Leu	Arg	Gln	Glu	Lys	Glu	Asp	Ser	Asp	Thr	Phe	Gln	Gly	Glu	Gly
			260					265					270		
His	Phe	Ser	Val	Asp	Glu	Lys	Ala	Arg	Gln	Val	Asn	Leu	Thr	Glu	Arg
		275					280					285			
Gly	Leu	Val	Lys	Ile	Glu	Glu	Leu	Leu	Val	Ala	Glu	Gly	Ile	Met	Glu
	290					295					300				
Glu	Gly	Glu	Ser	Leu	Tyr	Ser	Pro	Ser	Asn	Ile	Met	Leu	Met	His	His
305					310					315					320
Val	Thr	Ala	Ala	Leu	Arg	Ala	His	Ala	Leu	Phe	Thr	Arg	Asp	Val	Asp
				325					330					335	
Tyr	Ile	Val	Lys	Asp	Gly	Glu	Val	Ile	Ile	Val	Asp	Glu	His	Thr	Gly
			340					345					350		
Arg	Thr	Met	Gln	Gly	Arg	Arg	Trp	Ser	Asp	Gly	Leu	His	Gln	Ala	Val
		355					360					365			
Glu	Ala	Lys	Glu	Gly	Val	Asp	Ile	Gln	Asn	Glu	Asn	Gln	Thr	Leu	Ala
	370					375					380				
Ser	Ile	Thr	Phe	Gln	Asn	Tyr	Phe	Arg	Leu	Tyr	Glu	Lys	Leu	Ala	Gly
385					390					395					400
Met	Thr	Gly	Thr	Ala	Asp	Thr	Glu	Ala	Phe	Glu	Phe	Ser	Ser	Ile	Tyr
				405					410					415	
Lys	Leu	Asp	Thr	Val	Val	Val	Pro	Thr	Asn	Arg	Pro	Met	Ile	Arg	Lys
			420					425					430		
Asp	Met	Pro	Asp	Leu	Val	Tyr	Met	Thr	Glu	Ala	Glu	Lys	Ile	Gln	Ala
		435					440					445			
Ile	Ile	Glu	Asp	Ile	Arg	Glu	Arg	Thr	Ala	Lys	Gly	Gln	Pro	Val	Leu
	450					455					460				
Val	Gly	Thr	Ile	Ser	Ile	Glu	Lys	Ser	Glu	Val	Val	Ser	Asn	Glu	Leu

465					470					475				480
Thr	Lys	Ala	Gly	Ile	Lys	His	Asn	Val	Leu	Asn	Ala	Lys	Phe	His
				485					490					495
Lys	Glu	Ala	Asp	Ile	Val	Ala	Gln	Ala	Gly	Tyr	Pro	Ala	Ala	Val
			500					505					510	Thr
Ile	Ala	Thr	Asn	Met	Ala	Gly	Arg	Gly	Thr	Asp	Ile	Met	Leu	Gly
			515				520					525		Gly
Ser	Trp	Gln	Ala	Glu	Val	Ala	Glu	Leu	Glu	Asn	Pro	Thr	Pro	Glu
			530			535					540			Gln
Ile	Ala	Gln	Ile	Lys	Ala	Asp	Trp	Gln	Val	Arg	His	Asp	Ala	Val
545				550						555				560
Pro	Ser	Gly	Gly	Leu	His	Ile	Ile	Gly	Thr	Glu	Arg	His	Glu	Ser
				565					570					575
Arg	Ile	Asp	Asn	Gln	Leu	Arg	Gly	Arg	Ala	Gly	Arg	Gln	Gly	Asp
			580				585						590	Ala
Gly	Ser	Ser	Arg	Phe	Tyr	Leu	Ser	Met	Glu	Asp	Ala	Leu	Met	Arg
		595					600					605		Ile
Phe	Ala	Ser	Asp	Arg	Val	Ser	Gly	Met	Met	Arg	Lys	Leu	Gly	Met
		610				615					620			Lys
Pro	Gly	Glu	Ala	Ile	Glu	His	Pro	Trp	Val	Thr	Lys	Ala	Ile	Ala
625				630						635				640
Ala	Gln	Arg	Lys	Val	Glu	Ser	Arg	Asn	Phe	Asp	Ile	Arg	Lys	Gln
				645					650					655
Leu	Glu	Tyr	Asp	Asp	Val	Ala	Asn	Asp	Gln	Arg	Arg	Ala	Ile	Tyr
			660					665					670	Thr
Gln	Arg	Asn	Glu	Leu	Leu	Asp	Val	Ser	Asp	Val	Ser	Glu	Thr	Ile
		675					680					685		Asn
Ser	Ile	Arg	Glu	Asp	Val	Phe	Lys	Ala	Thr	Ile	Asp	Ala	His	Ile
		690			695						700			Pro
Pro	Gln	Ser	Leu	Glu	Glu	Met	Trp	Asp	Ile	Glu	Gly	Leu	Gln	Glu
705				710						715				720
Leu	Lys	Asn	Asp	Phe	Asp	Leu	Glu	Leu	Pro	Ile	Lys	Glu	Trp	Leu
				725					730					735
Lys	Glu	Pro	Glu	Leu	His	Glu	Glu	Thr	Leu	Arg	Glu	Arg	Ile	Tyr
			740					745					750	Glu
Thr	Ala	Leu	Asp	Val	Tyr	Lys	Arg	Lys	Glu	Glu	Val	Val	Gly	Ala
		755					760					765		Glu
Met	Met	Arg	His	Phe	Glu	Lys	Gly	Val	Met	Leu	Gln	Thr	Leu	Asp
		770				775						780		Ser
Leu	Trp	Lys	Glu	His	Leu	Ala	Ala	Met	Asp	Tyr	Leu	Arg	Gln	Gly
785				790						795				Ile
His	Leu	Arg	Gly	Tyr	Ala	Gln	Lys	Asp	Pro	Lys	Gln	Glu	Tyr	Lys
				805					810					815
Glu	Ser	Phe	Ser	Met	Phe	Ala	Ala	Met	Leu	Glu	Ser	Leu	Lys	Tyr
			820					825					830	Glu
Val	Ile	Ser	Thr	Leu	Ser	Lys	Val	Gln	Val	Arg	Met	Pro	Glu	Glu
			835				840					845		Val
Glu	Ala	Met	Glu	Gln	Gln	Arg	Arg	Glu	Glu	Ala	Glu	Arg	Leu	Ala
		850				855					860			Gln
Met	Gln	Gln	Leu	Ser	His	Gln	Thr	Asp	Glu	Ser	Glu	Ala	Ala	Ala
865				870						875				880
Ile	Ala	Ala	Gln	Thr	Gly	Asp	Arg	Lys	Val	Gly	Arg	Asn	Asp	Pro
				885					890					895
Pro	Cys	Gly	Ser	Gly	Lys	Lys	Tyr	Lys	Ala	Cys	His	Gly	Arg	Leu
			900					905						Ser

<210> 9637

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 9637

Glu His Asn Lys Leu Lys Arg Arg Arg Tyr Leu Arg Leu Phe Tyr Gly
 1 5 10 15
 Ser Asp Met Met Lys Thr Leu Gln Ile Ala Val Gly Ile Ile Arg Asn
 20 25 30
 Pro Gln Asn Gln Ile Phe Ile Thr Gln Arg Ala Ala Asp Ala His Met
 35 40 45
 Ala Asn Lys Trp Glu Phe Pro Gly Gly Lys Ile Glu Ser Gly Glu Thr
 50 55 60
 Pro Glu Gln Ala Leu Val Arg Glu Leu Gln Glu Glu Val Gly Ile Thr
 65 70 75 80
 Pro Leu Gly Ala Thr Leu Phe Asp Lys Leu Glu Tyr Gln Phe Pro Asp
 85 90 95
 Arg His Ile Thr Leu Trp Phe Trp Leu Val Glu Ser Trp Glu Gly Glu
 100 105 110
 Pro Trp Gly Lys Glu Gly Gln Pro Gly Gly Trp Val Thr Leu His Ala
 115 120 125
 Ser Asp Ala Glu Lys Phe Pro Pro Ala Asn Ala Pro Val Ile Ser Arg
 130 135 140
 Leu Thr Gly Asn Leu
 145 150

<210> 9638

<211> 366

<212> PRT

<213> Enterobacter cloacae

<400> 9638

Arg His Trp Ser Cys Ala Phe Asn Ile Phe Ala Ser Asn Pro Arg Asn
 1 5 10 15
 Pro His Met Arg Ile Glu Glu Asp Leu Lys Leu Gly Phe Lys Asp Val
 20 25 30
 Leu Ile Arg Pro Lys Arg Ser Thr Leu Lys Ser Arg Ser Asp Val Glu
 35 40 45
 Leu Glu Arg Gln Phe Thr Phe Lys His Ser Gly Gln Thr Trp Ser Gly
 50 55 60
 Val Pro Ile Ile Ala Ala Asn Met Asp Thr Val Gly Thr Phe Glu Met
 65 70 75 80
 Ala Thr Ala Leu Ala Gln Phe Asp Ile Leu Thr Ala Val His Lys His
 85 90 95
 Tyr Ser Ala Glu Trp Asp Ala Phe Val Ala Ser Ala Ser Ala Glu
 100 105 110
 Val Val Lys His Val Met Val Ser Thr Gly Thr Ser Asp Ala Asp Phe
 115 120 125
 Glu Lys Thr Lys Gln Ile Leu Asn Ala Asn Pro Ala Leu Asn Phe Val
 130 135 140
 Cys Ile Asp Val Ala Asn Gly Tyr Ser Glu His Phe Val Gln Phe Val
 145 150 155 160
 Ser Lys Ala Arg Glu Ala Trp Pro Thr Lys Thr Ile Ile Ala Gly Asn
 165 170 175
 Val Val Thr Gly Glu Met Cys Glu Glu Leu Ile Leu Ser Gly Ala Asp
 180 185 190
 Ile Val Lys Val Gly Ile Gly Pro Gly Ser Val Cys Thr Thr Arg Val
 195 200 205
 Lys Thr Gly Val Gly Tyr Pro Gln Leu Ser Ala Val Ile Glu Cys Ala
 210 215 220
 Asp Ala Ala His Gly Leu Gly Gly Gln Ile Ile Ser Asp Gly Gly Cys
 225 230 235 240
 Thr Met Pro Gly Asp Val Ala Lys Ala Phe Gly Gly Gly Ala Asp Phe

```
<210> 9639
<211> 193
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9640
<211> 881
<212> PRT
<213> Enterobacter cloacae
```

<400> 9640															
Arg	Glu	Arg	Pro	Pro	His	Met	Thr	Met	Arg	Ala	Arg	Arg	Thr	Val	Val
1			5						10					15	
Leu	Glu	Glu	Tyr	Arg	Lys	His	Val	Ala	Glu	Arg	Ala	Ala	Glu	Gly	Ile
			20					25					30		
Val	Pro	Lys	Pro	Leu	Asp	Ala	Thr	Gln	Met	Ala	Ala	Leu	Val	Glu	Leu
		35					40					45			


```
<210> 9641
<211> 185
<212> PRT
<213> Enterobacter cloacae
```

Asn 1	His	Leu	Val 5	Ser	Asn	Met	Lys	His 10	Thr	Val	Glu	Val	Met 15	Ile	Pro
Glu	Ala	Glu	Ile 20	Lys	Ala	Arg	Ile	Ala 25	Glu	Leu	Gly	Arg	Gln 30	Ile	Thr
Glu	His	Tyr 35	Lys	Asp	Ser	Gly	Ser 40	Glu	Met	Val	Leu	Val 45	Gly	Leu	Leu
Arg	Gly 50	Ser	Phe	Met	Phe	Met 55	Ala	Asp	Leu	Cys 60	Arg	Glu	Val	Gln	Val
Pro	His	Glu	Val	Asp	Phe	Met	Thr	Ala	Ser	Ser	Tyr	Gly	Ser	Gly	Met

```
<210> 9642
<211> 312
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

305

310

<210> 9643

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 9643

```

Thr Thr Arg Leu Leu Arg Arg Asp Val Met Leu Gly Trp Val Ile Thr
1      5      10
Cys His Asp Glu Glu Ala Gln Glu Met Leu Leu Lys Leu Glu Ala Arg
      20      25      30
Phe Gly Pro Leu Ala Gln Cys Arg Ala Val Asn Tyr Trp Arg Gly Leu
      35      40      45
Ser Thr Asn Met Leu Ser Arg Met Met Cys Asp Ala Leu His Glu Thr
      50      55      60
Asp Thr Gly Asp Gly Val Ile Phe Leu Thr Asp Lys Ser Gly Ala Ala
65      70      75      80
Pro Tyr Arg Ser Ala Ala Leu Met Ser His Lys His Asp Asn Cys Glu
      85      90      95
Val Ile Ser Gly Ile Ser Leu Pro Leu Leu Glu Ala Met Tyr Pro Leu
      100      105      110
Arg Ala Thr Leu Ser Ser Ala Glu Phe Arg His Ala Ile Val Ala Gln
      115      120      125
Gly Ser Pro Gly Val Ser Ser Leu Trp His Gln Gln Gln Lys Asn Pro
      130      135      140
Pro Phe Val Leu Leu His Asp Leu Tyr Lys His
145      150      155

```

<210> 9644

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 9644

```

Thr Leu Val Leu Met Ser Leu Leu Leu Gln Trp Arg Leu Ile Phe Arg
1      5      10      15
Ile Asp Leu Tyr Pro Met Leu Met Arg Val Ile Phe Ile Leu Leu Val
      20      25      30
Leu Val Ser Gly Gly Ala Ser Ala Ser Leu Thr Ser Gln Gln Gly Leu
      35      40      45
Pro Ala Gln Tyr Met Gln Thr Thr Glu Asp Ala Ala Ile Trp Ala Gln
      50      55      60
Val Gly Asn Ala Val Val Asn Val Gly Asn Val Arg Ala Gly Gln Ile
65      70      75      80
Leu Ala Val Phe Pro Ala Ala Ala Asp Tyr Glu Phe Arg Phe Gly
      85      90      95
Phe Gly Thr Gly Phe Ile Asp Lys Asp His Leu Glu Lys Val Gln Gly
      100      105      110
Lys Gln Arg Val Glu Asp Ser Leu Gly Asp Leu Asn Lys Pro Leu Ser
      115      120      125
Asn Gln Asn Leu Ile Thr Trp Lys Asp Thr Pro Val Tyr Asn Ala Pro
      130      135      140
Ser Ser Gly Ser Ala Pro Phe Gly Thr Leu Ser Ala Asn Leu Arg Tyr
145      150      155      160
Pro Ile Leu Asn Lys Leu Lys Asp Arg Leu Asn Gln Thr Trp Phe Gln
      165      170      175
Ile Arg Ile Gly Asn Arg Leu Ala Trp Ile Ser Ser Leu Asp Ala Gln
      180      185      190
Glu Asp Asn Gly Leu Pro Val Leu Thr Tyr His His Ile Leu Arg Asp
195      200      205

```

Glu Glu Asn Thr Arg Phe Arg His Thr Ser Thr Thr Thr Ser Val Arg
 210 215 220
 Ala Phe Asn Asn Gln Met Ala Trp Leu Arg Asp Gln Gly Tyr Thr Thr
 225 230 235 240
 Leu Thr Met Tyr Gln Leu Glu Gly Tyr Val Arg Asn Lys Met Asn Leu
 245 250 255
 Pro Ala Lys Ala Val Val Ile Thr Phe Asp Asp Gly Leu Lys Ser Val
 260 265 270
 Ser Arg Tyr Ala Tyr Pro Val Leu Lys Glu Tyr Gly Phe Asn Ala Thr
 275 280 285
 Ala Phe Ile Ile Ser Ser Arg Ile Lys Gly His Pro Gln Lys Trp Asp
 290 295 300
 Pro Lys Ser Leu Gln Phe Met Ser Val Gln Glu Ile Lys Gly Ile Gln
 305 310 315 320
 Asp Val Phe Asp Ile Gln Ser His Thr His Phe Leu His Arg Val Asp
 325 330 335
 Gly Tyr Lys His Pro Ile Leu Leu Ser Arg Ser Tyr His Val Ile Leu
 340 345 350
 Phe Asp Phe Glu Arg Ser Arg Arg Ala Leu Ala Gln Phe Asn Pro Arg
 355 360 365
 Val Leu Tyr Val Ser Tyr Pro Phe Gly Gly Tyr Asp Asn Lys Ala Ile
 370 375 380
 Lys Ala Ala Asn Asp Ala Gly Phe His Leu Ala Val Thr Thr Met Lys
 385 390 395 400
 Gly Lys Val Lys Pro Gly Asp Asn Pro Phe Leu Leu Lys Arg Leu Tyr
 405 410 415
 Ile Leu Arg Thr Asp Ser Leu Glu Thr Met Ser Arg Leu Ile Ser Asn
 420 425 430
 Gln Pro Gln Gly
 435

<210> 9645

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 9645

Gln Gly Gly Arg Asp Ser Arg Leu Ser Arg Val Val Arg Gly Gln Ala
 1 5 10 15
 Leu Ala Ser His Leu Phe Phe Ala Asp Phe Cys Gln Arg Phe Thr Val
 20 25 30
 Asp Ala Gln Ile Gly Cys Trp Thr Arg Phe Gln Ala Thr Asn Thr Asp
 35 40 45
 Phe Asn Thr Ala Gly Phe Ala Val Ala Lys Ile Phe Val Leu Asp Leu
 50 55 60
 Leu Gln Arg Phe Phe Asp Leu Phe Asp Gln Phe Ala Leu Ala Val Thr
 65 70 75 80
 Val Thr Gln Phe Glu Ala Glu Leu Phe Phe Leu Ser Gly Thr Val Asp
 85 90 95
 Arg Val Arg Glu Val Ser Ser Phe Val Leu His Met Cys Asn Gly Ala
 100 105 110
 Ile Asp Phe Ile Pro Glu Leu Ile Thr Pro Cys Phe Lys Asn Thr Leu
 115 120 125
 Glu Val Arg Gln Leu Gly Phe Val His Ile Leu Phe Ala Arg Leu Leu
 130 135 140
 Leu Ile Arg Leu His Pro Ser Asp Gly Glu Asn Thr Gln Gly Arg Cys
 145 150 155 160
 Phe Thr Val Leu Pro Phe Leu His Val Ala Ser Pro
 165 170

<210> 9646

<211> 643

<212> PRT

<213> Enterobacter cloacae

<400> 9646

```

Pro Ala Ser Gly Val Arg Gly Lys Arg Ile Met Ala Ile Glu Ile Asn
1      5      10      15
Val Pro Asp Ile Gly Ala Asp Glu Val Glu Ile Thr Glu Ile Leu Val
20      25      30
Lys Val Gly Asp Lys Val Glu Ala Glu Gln Ser Leu Ile Thr Val Glu
35      40      45
Gly Asp Lys Ala Ser Met Glu Val Pro Ser Pro Gln Ala Gly Ile Val
50      55      60
Lys Glu Ile Lys Val Ser Val Gly Asp Lys Thr Glu Thr Gly Lys Leu
65      70      75      80
Ile Met Ile Phe Asp Ser Ala Asp Gly Ala Ala Ala Ala Pro Ala
85      90      95
Gln Glu Glu Lys Lys Glu Ala Ala Pro Ala Ala Ala Pro Ala Ala Ala
100      105      110
Ala Ala Ala Lys Glu Val Asn Val Pro Asp Ile Gly Gly Asp Glu Val
115      120      125
Glu Val Thr Glu Ile Leu Val Lys Val Gly Asp Thr Val Ala Ala Glu
130      135      140
Gln Ser Leu Ile Thr Val Glu Gly Asp Lys Ala Ser Met Glu Val Pro
145      150      155      160
Ala Pro Phe Ala Gly Thr Val Lys Glu Ile Lys Ile Asn Thr Gly Asp
165      170      175
Lys Val Ser Thr Gly Ser Leu Ile Met Ile Phe Glu Val Ala Gly Ser
180      185      190
Glu Gly Ala Ala Pro Ala Lys Ala Glu Ala Ala Pro Ala Pro Ala
195      200      205
Ala Ala Pro Ala Ala Ala Gly Gly Val Lys Asp Val Asn Val Pro Asp
210      215      220
Ile Gly Gly Asp Glu Val Glu Val Thr Glu Val Met Val Lys Val Gly
225      230      235      240
Asp Lys Val Ala Ala Glu Gln Ser Leu Ile Thr Val Glu Gly Asp Lys
245      250      255
Ala Ser Met Glu Val Pro Ala Pro Phe Ala Gly Thr Val Lys Glu Ile
260      265      270
Lys Ile Ser Thr Gly Asp Lys Val Ser Thr Gly Ser Leu Ile Met Val
275      280      285
Phe Glu Val Glu Gly Ala Ala Pro Ala Ala Ala Pro Ala Ala Ala Ala
290      295      300
Ala Pro Ala Pro Ala Ala Pro Ala Gln Ala Ala Lys Pro Ala Ala
305      310      315      320
Ala Pro Ala Ala Lys Ala Glu Lys Ser Glu Phe Ala Glu Asn Asp Ala
325      330      335
Tyr Val His Ala Thr Pro Leu Ile Arg Arg Leu Ala Arg Glu Phe Gly
340      345      350
Val Asn Leu Ala Lys Val Lys Gly Thr Gly Arg Lys Gly Arg Ile Leu
355      360      365
Arg Glu Asp Val Gln Ala Tyr Val Lys Asp Ala Val Lys Arg Ala Glu
370      375      380
Ala Ala Pro Ala Ala Ala Glu Gly Gly Ile Pro Gly Met Leu Pro
385      390      395      400
Trp Pro Lys Val Asp Phe Ser Lys Phe Gly Glu Ile Glu Glu Val Glu
405      410      415
Leu Gly Arg Ile Gln Lys Ile Ser Gly Ala Asn Leu Ser Arg Asn Trp
420      425      430
Val Met Ile Pro His Val Thr His Phe Asp Lys Thr Asp Ile Thr Asp
435      440      445

```

Leu Glu Ala Phe Arg Lys Gln Gln Asn Ala Glu Ala Glu Lys Arg Lys
 450 455 460
 Leu Asp Val Lys Phe Thr Pro Val Val Phe Ile Met Lys Ala Val Ala
 465 470 475 480
 Ala Ala Leu Glu Gln Met Pro Arg Phe Asn Ser Ser Leu Ser Glu Asp
 485 490 495
 Gly Gln Lys Leu Thr Leu Lys Lys Tyr Ile Asn Ile Gly Val Ala Val
 500 505 510
 Asp Thr Pro Asn Gly Leu Val Val Pro Val Phe Lys Asp Val Asn Lys
 515 520 525
 Lys Ser Val Thr Glu Leu Ser Arg Glu Leu Thr Thr Ile Ser Lys Lys
 530 535 540
 Ala Arg Asp Gly Lys Leu Thr Ala Gly Glu Met Gln Gly Gly Cys Phe
 545 550 555 560
 Thr Ile Ser Ser Ile Gly Gly Leu Gly Thr Thr His Phe Ala Pro Ile
 565 570 575
 Val Asn Ala Pro Glu Val Ala Ile Leu Gly Val Ser Lys Ser Ala Met
 580 585 590
 Glu Pro Val Trp Asn Gly Lys Glu Phe Val Pro Arg Leu Met Met Pro
 595 600 605
 Ile Ser Leu Ser Phe Asp His Arg Val Ile Asp Gly Ala Asp Gly Ala
 610 615 620
 Arg Phe Ile Thr Ile Ile Asn Asn Met Leu Ser Asp Ile Arg Arg Leu
 625 630 635 640
 Val Met

<210> 9647

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 9647

Gly His Gln Ala Ala Gly Ser Cys Ser His Leu Phe Ile Phe Ile Pro
 1 5 10 15
 Pro Thr Ser Pro Ala Phe Phe Leu Pro Arg Cys Cys Asp Asn Tyr Leu
 20 25 30
 Asn Gly Phe Ala Glu Glu Asn Ala Met Asp Tyr Glu Phe Leu Arg Asp
 35 40 45
 Ile Thr Gly Val Val Lys Val Arg Met Ser Met Gly His Glu Ala Val
 50 55 60
 Gly His Trp Phe Asn Glu Glu Val Lys Glu Asn Leu Ala Leu Leu Asp
 65 70 75 80
 Glu Val Glu Gln Ala Ala Glu Thr Val Lys Gly Ser Glu Arg Ser Trp
 85 90 95
 Gln Arg Ala Gly His Glu Tyr Thr Leu Trp Met Asp Gly Glu Glu Val
 100 105 110
 Met Val Arg Ala Asn Gln Leu Glu Leu Ser Gly Asp Glu Met Glu Glu
 115 120 125
 Gly Met Ser Tyr Tyr Asp Glu Glu Ser Leu Ser Leu Cys Gly Val Glu
 130 135 140
 Asp Phe Leu Ser Val Val Asn Ala Tyr Arg Asp Phe Met Lys Gln Lys
 145 150 155 160

<210> 9648

<211> 810

<212> PRT

<213> Enterobacter cloacae

<400> 9648

Val	Ser	Ser	Leu	Pro	Val	Ala	Val	Val	Leu	Pro	Glu	Leu	Leu	Ala	Ala
1				5					10					15	
Leu	Glu	His	Ala	Pro	Gln	Val	Leu	Leu	Ser	Ala	Pro	Thr	Gly	Ala	Gly
			20					25					30		
Lys	Ser	Thr	Trp	Leu	Pro	Leu	Gln	Ile	Leu	Arg	Asp	Gly	Asn	Ile	Ser
		35					40					45			
Gly	Lys	Ile	Ile	Leu	Leu	Glu	Pro	Arg	Arg	Leu	Ala	Ala	Arg	Asn	Val
	50					55					60				
Ala	Gln	Arg	Leu	Ala	Glu	Leu	Leu	Asn	Glu	Lys	Pro	Gly	Glu	Thr	Val
65					70					75				80	
Gly	Tyr	Arg	Met	Arg	Ala	Glu	Thr	Cys	Val	Gly	Pro	Ser	Thr	Arg	Leu
			85						90					95	
Glu	Val	Val	Thr	Glu	Gly	Ile	Leu	Thr	Arg	Met	Leu	Gln	Asn	Asp	Pro
			100					105					110		
Glu	Leu	Thr	Gly	Val	Gly	Leu	Val	Ile	Leu	Asp	Glu	Phe	His	Glu	Arg
		115					120					125			
Ser	Leu	Gln	Ala	Asp	Leu	Ala	Leu	Ala	Leu	Leu	Leu	Asp	Val	Gln	Gln
	130					135						140			
Gly	Leu	Arg	Asp	Asp	Leu	Arg	Leu	Leu	Ile	Met	Ser	Ala	Thr	Leu	Asp
145					150					155				160	
Asn	Glu	Arg	Leu	Arg	Gln	Thr	Leu	Pro	Asp	Ala	Pro	Met	Ile	Ser	Ser
			165						170					175	
Glu	Gly	Arg	Ala	Phe	Pro	Val	Glu	Arg	Arg	Tyr	Gln	Pro	Leu	Pro	Ala
			180					185					190		
His	Gln	Arg	Phe	Asp	Glu	Ala	Val	Ala	Ile	Ala	Thr	Ala	Glu	Leu	Leu
		195					200					205			
Arg	Gln	Glu	Pro	Gly	Ser	Leu	Leu	Leu	Phe	Leu	Pro	Gly	Val	Gly	Glu
	210					215					220				
Ile	Gln	Arg	Val	Gln	Glu	Gln	Leu	Ala	Ser	Arg	Val	Asp	Ser	Asp	Val
225					230					235				240	
Met	Leu	Cys	Pro	Leu	Tyr	Gly	Ala	Leu	Pro	Leu	Ala	Asp	Gln	Arg	Lys
			245						250					255	
Ala	Ile	Leu	Pro	Ala	Pro	Ala	Gly	Gln	Arg	Lys	Val	Val	Leu	Ala	Thr
		260					265						270		
Asn	Ile	Ala	Glu	Thr	Ser	Leu	Thr	Ile	Glu	Gly	Ile	Arg	Leu	Val	Val
		275					280					285			
Asp	Ser	Thr	Leu	Glu	Arg	Val	Ala	Ser	Phe	Asp	Pro	Arg	Ser	Gly	Leu
	290					295					300				
Thr	Arg	Leu	Leu	Thr	Gln	Arg	Ile	Ser	Gln	Ala	Ser	Met	Val	Gln	Arg
305					310					315				320	
Ala	Gly	Arg	Ala	Gly	Arg	Leu	Glu	Pro	Gly	Ile	Cys	Leu	His	Leu	Thr
			325						330					335	
Ser	Ala	Glu	Gln	Ala	Glu	Arg	Ala	Ala	Phe	Gln	Ser	Thr	Pro	Glu	Ile
		340						345					350		
Leu	Gln	Ser	Asp	Leu	Ser	Gly	Leu	Val	Met	Asp	Met	Met	Gln	Trp	Gly
		355					360					365			
Cys	Pro	Asp	Pro	Asp	Gln	Leu	Thr	Trp	Leu	Asn	Pro	Pro	Pro	Val	Val
	370					375					380				
Asn	Leu	Ser	Ala	Ala	Arg	Ser	Leu	Leu	Thr	Gln	Leu	Gly	Ala	Leu	Glu
385					390					395				400	
Gly	Glu	Arg	Leu	Thr	Ala	Arg	Gly	Gln	Lys	Met	Ala	Ala	Leu	Gly	Asn
			405						410					415	
Asp	Pro	Arg	Leu	Ala	Ala	Met	Leu	Val	Ala	Ala	Gln	Gly	Asp	Asp	Glu
			420					425					430		
Ile	Ala	Thr	Ala	Ala	Lys	Leu	Ala	Ala	Ile	Leu	Glu	Glu	Pro	Pro	Arg
		435					440					445			
Gly	Gly	Gly	Ser	Asp	Leu	Gly	Gln	Ala	Phe	Ser	Arg	His	Gln	Gly	Asn
	450					455					460				
Trp	Gln	Gln	Arg	Ala	Gln	Gln	Leu	Cys	Lys	Arg	Leu	Asn	Cys	Arg	Gly
465					470					475					480

```
<210> 9649
<211> 652
<212> PRT
<213> Enterobacter cloacae
```

<400> 9649																	
Met	Leu	Arg	Arg	Lys	Ser	Met	Ala	Gly	Asn	Asp	Arg	Glu	Pro	Ile	Gly		
1				5					10					15			
Arg	Lys	Gly	Lys	Pro	Thr	Arg	Pro	Ala	Lys	Glu	Lys	Val	Ser	Arg	Arg		
			20					25					30				
Arg	Leu	Arg	Asp	Glu	Glu	Tyr	Asp	Asp	Tyr	Glu	Asp	Asp	Tyr	Glu			
		35					40				45						
Asp	Glu	Glu	Pro	Met	Pro	Arg	Lys	Gly	Lys	Gly	Lys	Gly	Arg	Lys	Pro		
	50					55					60						
Arg	Gly	Lys	Arg	Gly	Trp	Phe	Trp	Leu	Leu	Leu	Lys	Leu	Phe	Ile	Val		
65					70					75					80		
Phe	Val	Val	Leu	Ile	Ala	Ile	Tyr	Gly	Val	Tyr	Leu	Asp	Gln	Lys	Ile		
				85					90					95			

Arg	Ser	Arg	Ile	Asp	Gly	Lys	Val	Trp	Gln	Leu	Pro	Ala	Ala	Val	Tyr
			100					105					110		
Gly	Arg	Met	Val	Asn	Leu	Glu	Pro	Asp	Met	Ser	Ile	Ser	Lys	Asn	Glu
		115					120					125			
Met	Val	Lys	Leu	Leu	Gln	Ala	Thr	Gln	Tyr	Arg	Gln	Val	Thr	Lys	Met
		130				135					140				
Thr	Arg	Pro	Gly	Glu	Phe	Thr	Val	Gln	Ala	Lys	Ser	Ile	Glu	Met	Ile
		145			150					155					160
Arg	Arg	Pro	Phe	Asp	Phe	Pro	Asp	Ser	Lys	Glu	Gly	Gln	Val	Arg	Ala
				165					170					175	
Arg	Leu	Thr	Phe	Asp	Gly	Asp	Arg	Leu	Glu	Thr	Ile	Glu	Asn	Met	Asp
		180						185					190		
Asn	Asp	Arg	Gln	Phe	Gly	Phe	Phe	Arg	Leu	Asp	Pro	Arg	Leu	Ile	Thr
		195						200				205			
Met	Leu	Ser	Ser	Ala	Asn	Gly	Glu	Gln	Arg	Leu	Phe	Val	Ala	Arg	Asn
		210				215					220				
Gly	Phe	Pro	Asp	Leu	Leu	Val	Asp	Thr	Leu	Leu	Ala	Thr	Glu	Asp	Arg
		225			230					235					240
His	Phe	Tyr	Glu	His	Asp	Gly	Ile	Ser	Leu	Tyr	Ser	Ile	Gly	Arg	Ala
				245					250					255	
Val	Leu	Ala	Asn	Leu	Thr	Ala	Gly	Arg	Thr	Val	Gln	Gly	Ala	Ser	Thr
			260					265					270		
Leu	Thr	Gln	Gln	Leu	Val	Lys	Asn	Leu	Phe	Leu	Ser	Ser	Glu	Arg	Ser
		275					280					285			
Tyr	Trp	Arg	Lys	Ala	Asn	Glu	Ala	Tyr	Met	Ala	Val	Leu	Met	Asp	Ala
		290				295					300				
Arg	Tyr	Ser	Lys	Asp	Arg	Ile	Leu	Glu	Leu	Tyr	Met	Asn	Glu	Val	Tyr
		305			310					315					320
Leu	Gly	Gln	Ser	Gly	Asp	Asn	Glu	Ile	Arg	Gly	Phe	Pro	Leu	Ala	Ser
				325					330					335	
Leu	Tyr	Tyr	Phe	Gly	Arg	Pro	Val	Glu	Glu	Leu	Ser	Leu	Asp	Gln	Gln
			340					345					350		
Ala	Leu	Leu	Val	Gly	Met	Val	Lys	Gly	Ala	Ser	Ile	Tyr	Asn	Pro	Trp
		355					360					365			
Arg	Asn	Pro	Lys	Leu	Ala	Leu	Glu	Arg	Arg	Asn	Leu	Val	Leu	Arg	Leu
		370				375					380				
Leu	Gln	Gln	Gln	Gln	Val	Ile	Asp	Gln	Glu	Leu	Tyr	Asp	Met	Leu	Ser
		385			390					395					400
Ala	Arg	Pro	Leu	Gly	Val	Gln	Pro	Arg	Gly	Gly	Val	Ile	Ser	Pro	Gln
				405					410					415	
Pro	Ala	Phe	Met	Gln	Met	Val	Arg	Gln	Glu	Leu	Gln	Ser	Lys	Leu	Gly
			420					425					430		
Asp	Lys	Val	Lys	Asp	Leu	Ser	Gly	Val	Lys	Ile	Phe	Thr	Thr	Phe	Asp
		435					440						445		
Ser	Val	Ala	Gln	Asp	Ala	Ala	Glu	Lys	Ala	Ala	Val	Glu	Gly	Ile	Pro
		450			455						460				
Ala	Leu	Lys	Lys	Gln	Arg	Lys	Leu	Ser	Asp	Leu	Glu	Thr	Ala	Met	Val
		465			470					475					480
Val	Val	Asp	Arg	Asn	Thr	Gly	Glu	Val	Arg	Ala	Met	Val	Gly	Gly	Ala
				485					490					495	
Glu	Pro	Gln	Tyr	Ala	Gly	Tyr	Asn	Arg	Ala	Met	Gln	Ala	Arg	Arg	Ser
			500					505					510		
Ile	Gly	Ser	Leu	Ala	Lys	Pro	Ala	Thr	Tyr	Leu	Thr	Ala	Leu	Ser	Gln
		515					520					525			
Pro	Asn	Leu	Tyr	Arg	Leu	Asn	Thr	Trp	Ile	Ala	Asp	Ala	Pro	Ile	Ser
		530				535					540				
Leu	Arg	Gln	Pro	Asn	Gly	Gln	Val	Trp	Ser	Pro	Gln	Asn	Asp	Asp	Arg
		545			550					555					560
Gln	Phe	Ser	Gly	Gln	Val	Met	Leu	Val	Asp	Ala	Leu	Thr	Arg	Ser	Met
				565					570					575	
Asn	Val	Pro	Thr	Val	Asn	Leu	Gly	Met	Ala	Leu	Gly	Leu	Pro	Ala	Ile

400> 9651															
Gly	Asp	Asn	Met	Thr	Leu	Phe	Thr	Met	Leu	Leu	Val	Met	Ile	Ala	Glu
1			5						10					15	
Arg	Leu	Phe	Lys	Leu	Gly	Glu	His	Trp	His	Leu	Asp	His	Arg	Leu	Glu
			20					25					30		
Val	Leu	Phe	Arg	Arg	Ile	Arg	His	Phe	Ser	Met	Leu	Arg	Thr	Leu	Leu
		35					40					45			
Met	Ala	Ala	Gly	Val	Met	Ala	Ile	Thr	Phe	Leu	Leu	Leu	Arg	Ser	Leu
	50					55					60				
Tyr	Gly	Leu	Phe	Phe	Asn	Val	Pro	Leu	Leu	Val	Val	Trp	Ile	Leu	Leu
65					70					75				80	
Gly	Val	Leu	Cys	Ile	Gly	Ala	Gly	Lys	Val	Arg	Leu	His	Tyr	His	Ala
			85						90					95	
Tyr	Leu	Lys	Ala	Ala	Ser	Arg	Asp	Asp	Ala	His	Ala	Arg	Gly	Ala	Met
			100					105					110		
Ala	Ser	Glu	Leu	Thr	Met	Ile	His	Gly	Val	Pro	Pro	Asp	Cys	Asp	Glu
		115					120					125			

Arg Glu Phe Leu Arg Glu Leu Gln Asn Ala Leu Leu Trp Ile Asn Phe
 130 135 140
 Arg Tyr Tyr Leu Ala Pro Leu Phe Trp Phe Val Val Gly Gly Pro Trp
 145 150 155 160
 Gly Pro Val Leu Leu Met Gly Tyr Ala Phe Leu Arg Ala Trp Gln Thr
 165 170 175
 Trp Leu Ala Arg Tyr Leu Thr Pro His Glu Arg Leu Gln Ser Gly Ile
 180 185 190
 Asp Ala Ile Leu His Val Leu Asp Trp Leu Pro Val Arg Leu Val Gly
 195 200 205
 Val Val Tyr Ala Leu Ile Gly His Gly Glu Lys Ala Leu Pro Ala Trp
 210 215 220
 Phe Val Ser Leu Ala Asp Arg His Thr Ser Gln Tyr Gln Val Leu Thr
 225 230 235 240
 Arg Leu Ala Gln Phe Ser Leu Ala Arg Glu Pro His Thr Asp Lys Val
 245 250 255
 Ala Thr Pro Lys Ala Ala Val Ser Met Ala Lys Lys Thr Ser Phe Val
 260 265 270
 Val Val Val Ile Val Ala Leu Leu Thr Ile Tyr Gly Thr Leu Val
 275 280 285

<210> 9652

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 9652

Leu Arg Ala Lys Arg Arg Lys Thr Gly Asn Met Ala Tyr Ser Lys Ile
 1 5 10 15
 Arg Gln Pro Lys Leu Ser Asp Val Ile Glu Gln Gln Leu Glu Phe Leu
 20 25 30
 Ile Leu Glu Gly Thr Leu Arg Pro Gly Glu Lys Leu Pro Pro Glu Arg
 35 40 45
 Glu Leu Ala Lys Gln Phe Asp Val Ser Arg Pro Ser Leu Arg Glu Ala
 50 55 60
 Ile Gln Arg Leu Glu Ala Lys Gly Leu Leu Arg Arg Gln Gly Gly
 65 70 75 80
 Gly Thr Phe Val Gln Asn Ser Leu Trp Gln Ser Phe Ser Asp Pro Leu
 85 90 95
 Val Glu Leu Leu Ser Asp His Pro Glu Ser Gln Phe Asp Leu Leu Glu
 100 105 110
 Thr Arg His Ala Leu Glu Gly Ile Ala Ala Tyr Tyr Ala Ala Leu Arg
 115 120 125
 Ser Thr Asp Glu Asp Arg Val Arg Ile Arg Glu Leu His Gln Ala Ile
 130 135 140
 Glu Arg Ala Gln Gln Ser Gly Asp Leu Asp Ala Glu Ser Ser Ala Val
 145 150 155 160
 Val Gln Tyr Gln Ile Ala Val Thr Glu Ala Ala His Asn Val Val Leu
 165 170 175
 Leu His Leu Leu Arg Cys Met Glu Pro Met Leu Ala Gln Asn Val Arg
 180 185 190
 Gln Asn Phe Glu Leu Leu Tyr Ala Arg Arg Glu Met Leu Pro Leu Val
 195 200 205
 Ser Asn His Arg Thr Arg Val Phe Glu Ala Ile Met Ala Gly Glu Pro
 210 215 220
 Glu Gln Ala Arg Glu Ala Ser His Arg His Leu Ala Phe Ile Glu Glu
 225 230 235 240
 Ile Leu Leu Asp Arg Ser Arg Glu Gln Ser Arg Arg Glu Arg Ser Leu
 245 250 255
 Arg Arg Ile Gln Gln Arg Lys Asp
 260 265

<210> 9653
 <211> 893
 <212> PRT
 <213> Enterobacter cloacae

<400> 9653

```

Ile Arg Asn Thr Pro Met Ser Glu Arg Leu Gln Asn Asp Val Asp Pro
1      5      10      15
Ile Glu Thr Arg Asp Trp Leu Gln Ala Ile Glu Ser Val Ile Arg Glu
20      25      30
Glu Gly Val Glu Arg Ala Gln Tyr Leu Ile Asp Gln Leu Leu Ser Glu
35      40      45
Ala Arg Lys Gly Gly Val Lys Val Ala Ser Gly Ala Gly Ala Ser Asn
50      55      60
Tyr Val Asn Thr Ile Ala Val Glu Asp Glu Pro Glu Tyr Pro Gly Asn
65      70      75      80
Leu Asp Leu Glu Arg Arg Ile Arg Ser Ala Ile Arg Trp Asn Ala Ile
85      90      95
Met Thr Val Leu Arg Ala Ser Lys Lys Asp Leu Glu Leu Gly Gly His
100     105     110
Met Ala Ser Phe Gln Ser Ser Ala Thr Ile Tyr Glu Val Cys Phe Asn
115     120     125
His Phe Phe Arg Ala Ala Asn Glu Lys Asp Gly Gly Asp Leu Val Tyr
130     135     140
Phe Gln Gly His Ile Ser Pro Gly Ile Tyr Ala Arg Ala Phe Leu Glu
145     150     155     160
Gly Arg Leu Thr Glu Glu Gln Met Asn Asn Phe Arg Gln Glu Val His
165     170     175
Gly Lys Gly Leu Ser Ser Tyr Pro His Pro Lys Leu Met Pro Glu Phe
180     185     190
Trp Gln Phe Pro Thr Val Ser Met Gly Leu Gly Pro Ile Gly Ala Ile
195     200     205
Tyr Gln Ala Lys Phe Leu Lys Tyr Leu Glu His Arg Gly Leu Lys Asp
210     215     220
Thr Ser Glu Gln Thr Val Tyr Ala Phe Leu Gly Asp Gly Glu Met Asp
225     230     235     240
Glu Pro Glu Ser Lys Gly Ala Ile Thr Ile Ala Thr Arg Glu Lys Leu
245     250     255
Asp Asn Leu Cys Phe Ile Ile Asn Cys Asn Leu Gln Arg Leu Asp Gly
260     265     270
Pro Val Thr Gly Asn Gly Lys Ile Ile Asn Glu Leu Glu Gly Ile Phe
275     280     285
Ala Gly Ala Gly Trp Asn Val Ile Lys Val Met Trp Gly Gly Arg Trp
290     295     300
Asp Glu Leu Leu Arg Lys Asp Thr Ser Gly Lys Leu Ile Gln Leu Met
305     310     315     320
Asn Glu Thr Val Asp Gly Asp Tyr Gln Thr Phe Lys Ser Lys Asp Gly
325     330     335
Ala Tyr Val Arg Glu His Phe Phe Gly Lys Tyr Pro Glu Thr Ala Ala
340     345     350
Leu Val Ala Asp Trp Thr Asp Glu Gln Ile Trp Ala Leu Asn Arg Gly
355     360     365
Gly His Asp Pro Lys Lys Val Tyr Ala Ala Leu Lys Lys Ala Arg Glu
370     375     380
Thr Lys Gly Lys Ala Thr Val Ile Leu Ala His Thr Ile Lys Gly Tyr
385     390     395     400
Gly Met Gly Asp Thr Ala Glu Gly Lys Asn Ile Ala His Gln Val Lys
405     410     415
Lys Met Asn Met Asp Gly Val Arg Tyr Ile Arg Asp Arg Phe Asn Val
420     425     430

```


Pro Val Thr Asp Glu Gln Val Glu Lys Leu Ser Tyr Ile Thr Phe Pro
 435 440 445
 Glu Gly Ser Glu Glu His Lys Tyr Leu His Glu Arg Gln Ala Leu
 450 455 460
 Lys Gly Tyr Leu Pro Ala Arg Gln Pro Asn Phe Thr Glu Lys Leu Glu
 465 470 475 480
 Leu Pro Ala Leu Glu Asp Phe Ser Gln Leu Glu Glu Gln Asn Lys
 485 490 495
 Glu Ile Ser Thr Thr Ile Ala Phe Val Arg Ala Leu Asn Val Met Leu
 500 505 510
 Lys Asn Lys Ser Ile Lys Asp Arg Leu Val Pro Ile Ile Ala Asp Glu
 515 520 525
 Ala Arg Thr Phe Gly Met Glu Gly Leu Phe Arg Gln Ile Gly Ile Tyr
 530 535 540
 Ser Pro Asn Gly Gln Gln Tyr Thr Pro Gln Asp Arg Glu Gln Val Ala
 545 550 555 560
 Tyr Tyr Lys Glu Asp Glu Lys Gly Gln Ile Leu Gln Glu Gly Ile Asn
 565 570 575
 Glu Leu Gly Ala Gly Ala Ser Trp Leu Ala Ala Ala Thr Ser Tyr Ser
 580 585 590
 Thr Asn Asn Leu Pro Met Ile Pro Phe Tyr Ile Tyr Tyr Ser Met Phe
 595 600 605
 Gly Phe Gln Arg Ile Gly Asp Leu Cys Trp Gln Ala Gly Asp Gln Gln
 610 615 620
 Ala Arg Gly Phe Leu Ile Gly Gly Thr Ser Gly Arg Thr Thr Leu Asn
 625 630 635 640
 Gly Glu Gly Leu Gln His Glu Asp Gly His Ser His Ile Gln Ser Leu
 645 650 655
 Thr Ile Pro Asn Cys Ile Ser Tyr Asp Pro Ser Tyr Ala Tyr Glu Val
 660 665 670
 Ala Val Ile Met His Asp Gly Leu Gln Arg Met Tyr Gly Glu Ala Gln
 675 680 685
 Glu Asn Ile Tyr Tyr Tyr Ile Thr Thr Leu Asn Glu Asn Tyr His Met
 690 695 700
 Pro Ala Met Pro Ala Gly Ala Glu Glu Gly Ile Arg Lys Gly Ile Tyr
 705 710 715 720
 Lys Leu Glu Thr Ile Glu Gly Ser Lys Gly Lys Val Gln Leu Leu Gly
 725 730 735
 Ser Gly Ser Ile Leu Arg His Val Arg Glu Ala Ala Gln Ile Leu Ala
 740 745 750
 Lys Asp Tyr Gly Val Gly Ser Asp Val Tyr Ser Val Thr Ser Phe Thr
 755 760 765
 Glu Leu Ala Arg Asp Gly Gln Asp Cys Glu Arg Trp Asn Met Leu His
 770 775 780
 Pro Met Glu Thr Pro Arg Val Pro Tyr Ile Ala Gln Val Met Asn Asp
 785 790 795 800
 Ala Pro Ala Val Ala Ser Thr Asp Tyr Met Lys Leu Phe Ala Glu Gln
 805 810 815
 Val Arg Thr Tyr Val Pro Ala Asp Asp Tyr Arg Val Leu Gly Thr Asp
 820 825 830
 Gly Phe Gly Arg Ser Asp Ser Arg Glu Asn Leu Arg His His Phe Glu
 835 840 845
 Val Asp Ala Ser Tyr Val Val Val Ala Ala Leu Gly Glu Leu Ala Lys
 850 855 860
 Arg Gly Glu Ile Asp Lys Lys Val Val Ala Asp Ala Ile Thr Lys Phe
 865 870 875 880
 Asn Ile Asp Ala Asp Lys Val Asn Pro Arg Leu Ala
 885 890

<210> 9654

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 9654

Glu Val Met Met Ser Thr Glu Ile Lys Thr Gln Val Val Val Leu Gly
 1 5 10 15
 Ala Gly Pro Ala Gly Tyr Ser Ala Ala Phe Arg Ala Ala Asp Leu Gly
 20 25 30
 Leu Glu Thr Val Ile Val Glu Arg Tyr Ser Thr Leu Gly Gly Val Cys
 35 40 45
 Leu Asn Val Gly Cys Ile Pro Ser Lys Ala Leu Leu His Val Ala Lys
 50 55 60
 Val Ile Glu Glu Ala Lys Ala Leu Ala Glu His Gly Ile Val Phe Gly
 65 70 75 80
 Glu Pro Lys Thr Asp Ile Asp Lys Ile Arg Thr Trp Lys Glu Lys Val
 85 90 95
 Ile Thr Gln Leu Thr Gly Gly Leu Ala Gly Met Ala Lys Gly Arg Lys
 100 105 110
 Val Lys Val Val Asn Gly Leu Gly Lys Phe Thr Gly Ala Asn Thr Leu
 115 120 125
 Glu Val Glu Gly Glu Asn Gly Lys Thr Val Ile Asn Phe Asp Asn Ala
 130 135 140
 Ile Ile Ala Ala Gly Ser Arg Pro Ile Glu Leu Pro Phe Ile Pro His
 145 150 155 160
 Glu Asp Pro Arg Val Trp Asp Ser Thr Asp Ala Leu Glu Leu Lys Thr
 165 170 175
 Val Pro Lys Arg Leu Leu Val Met Gly Gly Gly Ile Ile Gly Leu Glu
 180 185 190
 Met Gly Thr Val Tyr His Ala Leu Gly Ser Glu Ile Asp Val Val Glu
 195 200 205
 Met Phe Asp Gln Val Ile Pro Ala Ala Asp Lys Asp Ile Val Lys Val
 210 215 220
 Phe Thr Lys Arg Ile Ser Lys Lys Phe Asn Leu Met Leu Glu Thr Lys
 225 230 235 240
 Val Thr Ala Val Glu Ala Lys Glu Asp Gly Ile Tyr Val Ser Met Glu
 245 250 255
 Gly Lys Lys Ala Pro Ser Glu Pro Gln Arg Tyr Asp Ala Val Leu Val
 260 265 270
 Ala Ile Gly Arg Val Pro Asn Gly Lys Asn Leu Asp Ala Gly Lys Ala
 275 280 285
 Gly Val Glu Val Asp Asp Arg Gly Phe Ile Arg Val Asp Lys Gln Leu
 290 295 300
 Arg Thr Asn Val Pro His Ile Phe Ala Ile Gly Asp Ile Val Gly Gln
 305 310 315 320
 Pro Met Leu Ala His Lys Gly Val His Glu Gly His Val Ala Ala Glu
 325 330 335
 Val Ile Ala Gly Met Lys His Tyr Phe Asp Pro Lys Val Ile Pro Ser
 340 345 350
 Ile Ala Tyr Thr Glu Pro Glu Val Ala Trp Val Gly Leu Thr Glu Lys
 355 360 365
 Glu Ala Lys Glu Lys Gly Ile Ser Tyr Glu Thr Ala Thr Phe Pro Trp
 370 375 380
 Ala Ala Ser Gly Arg Ala Ile Ala Ser Asp Cys Ala Asp Gly Met Thr
 385 390 395 400
 Lys Leu Ile Phe Asp Lys Glu Thr His Arg Val Ile Gly Gly Ala Ile
 405 410 415
 Val Gly Thr Asn Gly Gly Glu Leu Leu Gly Glu Ile Gly Leu Ala Ile
 420 425 430
 Glu Met Gly Cys Asp Ala Glu Asp Ile Ala Leu Thr Ile His Ala His
 435 440 445
 Pro Thr Leu His Glu Ser Val Gly Leu Ala Ala Glu Val Phe Glu Gly

450 455 460
 Ser Ile Thr Asp Leu Pro Asn Ala Lys Ala Lys Lys Lys
 465 470 475

<210> 9655
 <211> 149
 <212> PRT
 <213> Enterobacter cloacae

<400> 9655
 Asn His Ala Ala Gly Gly His Phe Asn Ile Arg Ala Glu Gly Thr Gln
 1 5 10 15
 Pro Ala Phe Arg Val Ala Phe Arg Val Gly Val His Ala Asp Val Ala
 20 25 30
 Phe Ile Gln Val Ser Asn His His Phe Arg Gln Arg Ala Gly Val Phe
 35 40 45
 Gly Phe Val Asp Lys Leu Trp Val Asn Arg Leu Phe Thr His Gln Asn
 50 55 60
 Gly Asp Ala Arg Thr Leu Arg Leu Ile Ile Leu Ala Arg Asp Ile Glu
 65 70 75 80
 Asp Val Arg Ala Asp Asn Arg Ala Gly Leu Cys Gln Asp Leu Gly Gln
 85 90 95
 Thr Val Gly Val Val Glu Phe Ile Asp Ile Gly Asp Val Thr Ile Ala
 100 105 110
 Leu Phe Cys Cys Phe Gly Val Ala Asp Ile Val Asn Thr Lys Thr Gln
 115 120 125
 Ala Phe Gly Gln Ile Val Lys Ala Met Gln Phe Lys Leu Phe Gln Leu
 130 135 140
 Val His Leu Leu
 145

<210> 9656
 <211> 588
 <212> PRT
 <213> Enterobacter cloacae

<400> 9656
 Leu Phe Ala His Ile Ala Ile Arg Leu Ala Asn Lys Ile Val Leu Lys
 1 5 10 15
 Asn Val Phe Ile Ala Phe Thr Thr Ala Ser Arg Lys Ile Asn Val Ser
 20 25 30
 Ile Leu Asp Ala Arg Pro Thr Ile Phe Ile Ile Ala Ala Val Leu Asp
 35 40 45
 Leu Pro Val Arg Gly Gly Phe Met Leu Lys Arg Ser Pro Ala Gly Asn
 50 55 60
 Lys Glu Met His Met Gln Arg Arg Asp Phe Leu Lys Phe Ser Ala Ala
 65 70 75 80
 Leu Gly Val Ala Ser Ala Ile Pro Leu Trp Ser Arg Ala Val Phe Ala
 85 90 95
 Ala Asp Arg Pro Ala Leu Pro Ile Pro Glu Leu Leu Ala Pro Asp Ala
 100 105 110
 Arg Ser Arg Ile Gln Leu Val Val Gln Ala Gly Lys Thr Thr Phe Gly
 115 120 125
 Gln His Ala Ala Thr Thr Trp Gly Tyr Asn Gly Asn Leu Gly Pro
 130 135 140
 Ala Leu Gln Leu Arg Lys Gly Lys Ala Val Thr Val Asp Ile His Asn
 145 150 155 160
 Thr Leu Ala Glu Glu Thr Thr Leu His Trp His Gly Leu Glu Val Pro
 165 170 175
 Gly Glu Val Asp Gly Gly Pro Gln Gly Val Ile Arg Pro Gly Gly Lys
 180 185 190

Arg Ser Val Thr Phe Thr Pro Glu Gln Arg Ala Ala Thr Cys Trp Phe
 195 200 205
 His Pro His Gln His Gly Lys Thr Gly His Gln Val Ala Met Gly Leu
 210 215 220
 Ala Gly Leu Val Leu Ile Glu Asp Asp Glu Ser Arg Leu Leu Arg Leu
 225 230 235 240
 Pro Lys Gln Trp Gly Ile Asp Asp Val Pro Val Ile Val Gln Asp Lys
 245 250 255
 Lys Phe Ser Ala Asp Gly Gln Ile Asp Tyr Gln Leu Asp Val Met Ser
 260 265 270
 Ala Ala Val Gly Trp Phe Gly Asp Thr Leu Leu Thr Asn Gly Ala Ile
 275 280 285
 Tyr Pro Gln His Ala Ala Pro Lys Gly Trp Leu Arg Leu Arg Leu Leu
 290 295 300
 Asn Gly Cys Asn Ala Arg Ser Leu Asn Phe Ala Thr Ser Asp Lys Arg
 305 310 315 320
 Pro Leu Tyr Val Val Ala Ser Asp Gly Gly Leu Leu Pro Glu Pro Val
 325 330 335
 Lys Val Ser Glu Leu Pro Met Leu Met Gly Glu Arg Phe Glu Val Leu
 340 345 350
 Val Asp Ile Ser Asp Gly Lys Ala Phe Asp Leu Val Thr Leu Pro Val
 355 360 365
 Ser Gln Met Gly Met Ala Val Ala Pro Phe Asp Lys Pro His Pro Val
 370 375 380
 Leu Arg Ile Gln Pro Leu Gln Ile Thr Ala Ser Gly Thr Leu Pro Glu
 385 390 395 400
 Thr Leu Thr Thr Leu Pro Ala Leu Pro Ser Leu Asp Gly Leu Thr Gln
 405 410 415
 Arg Lys Leu Gln Leu Ser Met Asp Pro Met Leu Asp Met Met Gly Met
 420 425 430
 Gln Ala Leu Met Lys Lys Tyr Gly Asn Gln Ala Met Ala Gly Met His
 435 440 445
 His Gly Gln Met Met Gly His Met Asn Met Asp His Gly Asn Met Gly
 450 455 460
 Gly Met Asn His Gly Gly His Gly Phe Asp Phe His Asn Ala Asn Arg
 465 470 475 480
 Ile Asn Gly Lys Ala Phe Asp Met Asn Thr Pro Met Phe Ala Ala Thr
 485 490 495
 Lys Gly Gln Phe Glu Arg Trp Met Ile Ser Gly Glu Gly Asp Met Met
 500 505 510
 Leu His Pro Phe His Ile His Gly Thr Gln Phe Arg Ile Leu Ser Glu
 515 520 525
 Asn Gly Lys Ala Pro Glu Pro His Arg Ala Gly Trp Lys Asp Thr Val
 530 535 540
 Arg Val Glu Gly Gly Val Ser Glu Val Leu Val Lys Phe Asp His Glu
 545 550 555 560
 Ala Pro Lys Glu Phe Ala Tyr Met Ala His Cys His Leu Leu Glu His
 565 570 575
 Glu Asp Thr Gly Met Met Leu Gly Phe Thr Val
 580 585

<210> 9657

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 9657

Gln Ser Lys Pro Thr Gly Arg Ala Val Cys Leu Ser Gly Ala Arg Gln
 1 5 10 15
 Thr Arg Arg Gln Gly Met Thr His Leu Tyr Trp Val Ala Leu Lys Ser
 20 25 30

```

Ile Trp Ala Lys Glu Ile Asn Arg Phe Met Arg Ile Trp Val Gln Thr
   35                               40                               45
Leu Val Pro Pro Val Ile Thr Met Thr Leu Tyr Phe Ile Ile Phe Gly
   50                               55                               60
Asn Leu Ile Gly Ser Arg Ile Gly Glu Met His Gly Phe Thr Tyr Met
   65                               70                               75                               80
Gln Phe Ile Val Pro Gly Leu Ile Met Met Ala Val Ile Thr Asn Ala
   85                               90                               95
Tyr Ala Asn Val Ala Ser Ser Phe Phe Ser Ala Lys Phe Gln Arg Asn
  100                               105                               110
Ile Glu Glu Leu Leu Val Ala Pro Val Pro Thr His Val Ile Ile Ala
  115                               120                               125
Gly Tyr Val Gly Gly Gly Val Ala Arg Gly Leu Cys Val Gly Ile Leu
  130                               135                               140
Val Thr Ala Ile Ser Leu Phe Phe Val Pro Phe Gln Val His Ser Trp
  145                               150                               155                               160
Leu Phe Val Ala Leu Thr Leu Leu Leu Thr Ala Ile Leu Phe Ser Leu
  165                               170                               175
Ala Gly Leu Leu Asn Ala Val Phe Ala Lys Thr Phe Asp Asp Ile Ser
  180                               185                               190
Leu Ile Pro Thr Phe Val Leu Thr Pro Leu Thr Tyr Leu Gly Gly Val
  195                               200                               205
Phe Tyr Ser Leu Thr Leu Leu Pro Pro Phe Trp Gln Ala Leu Ser His
  210                               215                               220
Leu Asn Pro Ile Val Tyr Met Ile Ser Gly Phe Arg Phe Gly Phe Leu
  225                               230                               235                               240
Gly Ile Thr Asp Val Pro Leu Phe Thr Thr Val Val Val Leu Val Val
  245                               250                               255
Phe Ile Ile Ala Phe Tyr Leu Leu Cys Trp Tyr Leu Ile Gln Arg Gly
  260                               265                               270
Arg Gly Leu Arg Ser
  275

```

<210> 9658

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 9658

```

Asp Asp Met Lys Gln Ser Ile Val Lys Trp Leu Phe Glu Leu Asn Ala
  1      5      10      15
Lys Gln Arg Glu Val Leu Ala Arg Arg Phe Gly Leu Leu Gly Tyr Glu
  20      25      30
Ala Ala Thr Leu Glu Asp Val Gly Arg Glu Ile Gly Leu Thr Arg Glu
  35      40      45
Arg Val Arg Gln Ile Gln Val Glu Gly Leu Arg Arg Leu Arg Glu Ile
  50      55      60
Leu Gln Gly Gln Gly Leu Asn Ile Glu Ala Leu Phe Arg Glu
  65      70      75

```

<210> 9659

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 9659

```

Met Arg Leu Ile Val Gly Met Thr Gly Ala Thr Gly Ala Pro Leu Gly
  1      5      10      15
Val Ala Leu Leu Gln Ala Leu Arg Glu Met Pro Glu Val Glu Thr His
  20      25      30
Leu Val Met Ser Lys Trp Ala Lys Thr Thr Ile Glu Leu Glu Thr Pro

```

```

      35      40      45
Phe Thr Ala His Asp Val Ala Ala Leu Ala Asp Val Val His Ser Pro
 50      55      60
Ala Asp Gln Ala Ala Thr Ile Ser Ser Gly Ser Phe Arg Thr Asp Gly
65      70      75      80
Met Ile Val Ile Pro Cys Ser Met Lys Thr Leu Ala Gly Ile Arg Ala
      85      90      95
Gly Tyr Ala Glu Gly Leu Val Gly Arg Ala Ala Asp Val Val Leu Lys
      100      105      110
Glu Gly Arg Lys Leu Val Leu Val Pro Arg Glu Thr Pro Leu Ser Thr
      115      120      125
Ile His Leu Glu Asn Met Leu Ala Leu Ser Arg Met Gly Val Ala Met
      130      135      140
Val Pro Pro Met Pro Ala Tyr Tyr Asn His Pro Gln Thr Ala Asp Asp
145      150      155      160
Ile Thr Gln His Ile Val Thr Arg Val Leu Asp Gln Phe Gly Leu Glu
      165      170      175
His Lys Lys Ala Arg Arg Trp Glu Gly Leu Gln Ala Ala Lys His Phe
      180      185      190
Ser Gln Glu Asn Lys Asp Gly Ile
      195      200

```

<210> 9660

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 9660

```

Gly Gly Met Lys Met Ala Gly Lys Arg Ile Ala Arg Glu Lys Glu Thr
1      5      10      15
Ile Ala Lys Met Ile Ala Leu Tyr Glu Lys Asn Cys Pro Gln Ala Val
      20      25      30
Lys Asp Glu Gly His Tyr Gln Ala Leu Asn Ala Tyr Ala Asp Lys Arg
      35      40      45
Leu Asp Lys Cys Ile Phe Gly Glu Glu Lys Pro Ala Cys Lys Gln Cys
      50      55      60
Pro Val His Cys Tyr Gln Pro Ala Arg Arg Glu Glu Met Lys Gln Val
65      70      75      80
Met Arg Trp Ala Gly Pro Arg Met Leu Trp Arg His Pro Ile Leu Thr
      85      90      95
Leu Arg His Leu Ile Asp Asp Arg Arg Pro Val Pro Glu Leu Pro Glu
      100      105      110
Lys Tyr Arg Pro Lys Lys
      115

```

<210> 9661

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 9661

```

Phe Ala Leu Arg Arg Asp Asp Val Asn Ala Val Glu Met Thr Arg Arg
1      5      10      15
His Arg Gly Gly Asp Ser Thr Ser Leu Val Lys Ser Tyr Leu Asn Gln
      20      25      30
Gln Ile Lys Asn Trp His Glu Asn Cys Leu Thr Ala Ala Asn Ser Ile
      35      40      45
Asn Arg Ile Pro Phe Met Thr Ile Trp Glu Ile Ser Glu Lys Ala Asp
      50      55      60
Tyr Ile Ala Gln Arg His Gln Gln Leu Gln Asp Gln Trp His Leu Tyr
65      70      75      80

```

Cys	Asn	Ser	Leu	Ile	Gln	Gly	Ile	Thr	Leu	Ser	Lys	Ala	Arg	Leu	His
			85						90					95	
His	Ala	Met	Ser	Cys	Ala	Ala	Gln	Gly	Asp	Met	Arg	Phe	Val	Leu	Phe
			100					105					110		
Gly	His	Phe	Thr	Ile	Phe	Val	Thr	Leu	Ala	Glu	Ser	Phe	Asn	Ser	His
		115					120					125			
Thr	Ile	Glu	Tyr	Tyr	Val	Glu	Thr	Lys	Glu	Gly	Glu	Lys	Gln	Cys	Ile
	130					135					140				
Ala	Lys	Ala	Gln	Leu	Met	Ala	Asp	Gly	Met	Val	Asp	Gly	His	Val	Ser
145				150						155					160
Asn	Arg	Asp	Arg	Gln	Gln	Val	Leu	Glu	His	Tyr	Leu	Glu	Lys	Ile	Ala
			165						170					175	
Pro	Val	Tyr	Asn	Gly	Leu	Tyr	Ala	Ala	Val	Glu	His	Asp	Gln	Ser	Ile
			180					185					190		
Asn	Leu	Lys	Gln	Leu	Ile	Asp	Gly	Lys	Ser	Ser	Ala	Asn	Val	Ala	
		195					200					205			

<210> 9662

<211> 609

<212> PRT

<213> Enterobacter cloacae

<400> 9662

Arg	Gly	Gly	Glu	Met	Asn	Ala	Ile	Val	Met	Met	Thr	Ser	Gly	Val	Ala
1				5					10					15	
Trp	Phe	Ala	Ala	Ala	Ala	Val	Leu	Ala	Leu	Leu	Leu	Ala	Phe	His	Lys
			20					25					30		
Thr	Leu	Ser	Gly	Val	Ile	Ala	Gly	Ile	Gly	Gly	Ala	Val	Gly	Ser	Leu
	35						40					45			
Met	Thr	Leu	Ala	Ala	Gly	Gly	Val	Val	Leu	Ile	Asp	Gly	Gln	Ser	Val
	50					55					60				
Asp	Thr	Leu	Ile	Pro	Leu	Ile	His	His	Ala	Val	Glu	Leu	Thr	Pro	Leu
65				70					75					80	
Asn	Ala	Ile	Trp	Leu	Ile	Thr	Phe	Gly	Leu	Cys	Gly	Leu	Phe	Ile	Ser
			85					90						95	
Leu	Phe	Asn	Ile	Asp	Trp	His	Arg	His	Gln	His	Thr	Lys	Ala	Asn	Gly
			100					105					110		
Leu	Leu	Val	Asn	Leu	Leu	Met	Ala	Ala	Ala	Val	Cys	Thr	Val	Val	Ala
		115				120						125			
Ser	Asn	Leu	Gly	Ala	Leu	Val	Val	Met	Ala	Glu	Ile	Met	Ala	Leu	Cys
	130					135					140				
Gly	Val	Phe	Leu	Thr	Gly	Cys	Ser	Ala	Ser	Gly	Lys	Leu	Trp	Phe	Ala
145					150					155				160	
Leu	Gly	Arg	Leu	Gly	Thr	Leu	Leu	Leu	Ala	Leu	Ala	Cys	Trp	Leu	Val
			165						170					175	
Trp	Gln	Arg	Phe	Gly	Thr	Leu	Asp	Phe	Ala	Ala	Leu	Asn	Gly	Gln	Pro
			180					185					190		
Leu	Gly	Asn	Asp	Val	Trp	Leu	Leu	Gly	Val	Val	Gly	Phe	Gly	Leu	Leu
		195				200						205			
Ala	Gly	Ile	Ile	Pro	Leu	His	Gly	Trp	Val	Pro	Gln	Ala	His	Ala	Asn
	210					215					220				
Ala	Ser	Ala	Pro	Ala	Ala	Ala	Leu	Phe	Ser	Thr	Val	Val	Met	Lys	Val
225				230						235				240	
Gly	Leu	Phe	Gly	Ile	Leu	Thr	Ile	Thr	Leu	Thr	Gly	Asp	Gln	Pro	Pro
			245						250					255	
Leu	Trp	Trp	Gly	Val	Ala	Leu	Leu	Ile	Ala	Gly	Met	Ile	Thr	Ala	Phe
			260					265					270		
Val	Gly	Gly	Leu	Tyr	Ala	Leu	Met	Glu	His	Asn	Ile	Gln	Arg	Leu	Leu
		275					280					285			
Ala	Tyr	His	Thr	Leu	Glu	Asn	Ile	Gly	Ile	Ile	Leu	Leu	Gly	Met	Gly
	290					295					300				

Ala Gly Val Thr Gly Leu Ala Leu Asn Gln Pro Ala Leu Ile Ala Ala
 305 310 315 320
 Gly Phe Ile Gly Gly Leu Tyr His Leu Ile Asn His Ser Leu Phe Lys
 325 330 335
 Ser Thr Leu Phe Leu Gly Ala Gly Ser Val Trp Phe Arg Thr Gly His
 340 345 350
 Arg Asp Ile Glu Lys Leu Gly Gly Ile Gly Lys Lys Met Pro Val Ile
 355 360 365
 Ser Leu Ala Met Leu Val Gly Leu Met Ala Met Ala Ala Leu Pro Pro
 370 375 380
 Leu Asn Gly Phe Ala Gly Glu Trp Val Ile Tyr Gln Ser Phe Phe Ala
 385 390 395 400
 Leu Gly Gln Ser Glu Ala Phe Ile Gly Arg Leu Leu Gly Pro Leu Leu
 405 410 415
 Ala Val Gly Leu Ala Ile Thr Gly Ala Leu Ala Val Met Cys Met Ala
 420 425 430
 Lys Val Tyr Gly Val Thr Phe Leu Gly Ala Pro Arg Thr Arg Glu Ala
 435 440 445
 Glu Asn Ala Cys Cys Ala Pro Val Leu Met Thr Thr Ser Val Val Ala
 450 455 460
 Leu Ala Leu Cys Cys Ile Ala Gly Gly Val Ala Ala Pro Trp Leu Leu
 465 470 475 480
 Pro Leu Leu Gly His Ala Ile Pro Leu Pro Leu Val Thr Ala His Thr
 485 490 495
 Val Val Ser Gln Pro Met Met Ala Leu Leu Leu Ile Ala Ala Pro Leu
 500 505 510
 Leu Pro Phe Val Leu Met Leu Phe Arg Arg Asp Arg Leu Ala Ser
 515 520 525
 Arg Ser Arg Gly Ala Ala Trp Ala Cys Gly Tyr Glu His Glu Gln Ser
 530 535 540
 Met Val Ile Thr Ala His Gly Phe Ala Met Pro Val Lys Glu Asn Phe
 545 550 555 560
 Ala Ala Val Leu Lys Leu Arg His Trp Leu Asn Pro Val Gly Trp Val
 565 570 575
 Pro Gly Trp Gln Gly Ala Ala Val Pro Val Leu Phe Arg Arg Leu Ala
 580 585 590
 Leu Ile Glu Leu Ala Val Leu Val Val Ile Val Ile Ser Arg Gly Ala
 595 600 605

<210> 9663

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 9663

Pro His Arg Phe Asn Pro Pro Tyr Glu Arg Gly Gln Leu Met Glu Asn
 1 5 10 15
 Leu Leu Gly Pro Arg Asp Ala Asn Gly Ile Pro Val Pro Leu Thr Val
 20 25 30
 Glu Glu Ser Ile Ala Ser Met Lys Ala Ser Leu Leu Lys Lys Ile Lys
 35 40 45
 Arg Ser Ala Tyr Val Tyr Arg Val Asp Cys Gly Gly Cys Asn Gly Cys
 50 55 60
 Glu Ile Glu Ile Phe Ala Thr Leu Ser Pro Leu Phe Asp Ala Glu Arg
 65 70 75 80
 Phe Gly Ile Lys Val Val Pro Ser Pro Arg His Ala Asp Ile Leu Leu
 85 90 95
 Phe Thr Gly Ala Val Thr Arg Ala Met Arg Ser Pro Ala Leu Arg Ala
 100 105 110

Trp Gln Ser Ala Pro Asp Pro Lys Ile Cys Ile Ser Tyr Gly Ala Cys
 115 120 125
 Gly Asn Ser Gly Gly Ile Phe His Asp Leu Tyr Cys Val Trp Gly Gly
 130 135 140
 Thr Asp Lys Ile Val Pro Val Asp Val Tyr Ile Pro Gly Cys Pro Pro
 145 150 155 160
 Thr Pro Ala Ala Thr Leu Tyr Gly Phe Ala Met Ala Leu Gly Leu Leu
 165 170 175
 Glu Gln Lys Ile His Ala Arg Glu Pro Gly Glu Leu Asp Asn Gln Pro
 180 185 190
 Ala Thr Ile Leu His Pro Asp Met Val Gln Pro Leu Arg Val Lys Ile
 195 200 205
 Asp Arg Thr Ala Arg Arg Leu Ala Gly Tyr Arg Tyr Gly Arg Gln Ile
 210 215 220
 Ala Asp Asp Tyr Leu Arg Leu Leu Ser Gln Gly Asp His Gln Val Ala
 225 230 235 240
 Arg Trp Leu Glu Ala Glu Lys Asp Pro Arg Leu Asn Glu Ile Val Ala
 245 250 255
 Asn Leu Asn Asn Ile Val Asp Glu Ala Arg Ile Arg
 260 265

<210> 9664

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 9664

Gly Asp Tyr Val Thr Asp Val Leu Leu Cys Val Gly Asn Ser Met Met
 1 5 10 15
 Gly Asp Asp Gly Ala Gly Pro Leu Leu Ala Glu Leu Cys Ala Ala Asn
 20 25 30
 Ser Pro Gly Asn Trp Val Val Ile Asp Gly Gly Ser Ala Pro Glu Asn
 35 40 45
 Asp Val Val Ala Ile Arg Glu Leu His Pro Asp Arg Leu Ile Val
 50 55 60
 Asp Ala Thr Asp Met Gly Leu Asn Pro Gly Glu Ile Arg Leu Ile Asp
 65 70 75 80
 Pro Asp Asp Ile Ala Glu Met Phe Met Met Thr Thr His Asn Met Pro
 85 90 95
 Leu Asn Tyr Leu Val Asp Gln Ile Lys Gly Asp Val Gly Glu Val Leu
 100 105 110
 Phe Leu Gly Ile Gln Pro Asp Ile Val Gly Phe Tyr Tyr Pro Met Thr
 115 120 125
 Pro Pro Val Lys Glu Ala Val Asp Val Val Tyr Ser Arg Leu Ala Gly
 130 135 140
 Trp Val Gly Asp Gly Gly Phe Ser Pro Leu
 145 150 155

<210> 9665

<211> 371

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (371)

<400> 9665

Phe Leu Val Glu Lys Gly Thr Asp Leu Arg Trp Gly Gly Ala Asn Arg
 1 5 10 15
 Phe Leu Glu Glu Leu Gly Met Leu Tyr His Thr Gly Phe Leu Pro Asn

20 25 30
 Ser Leu Asn Gly Cys His Met Phe Lys Arg Arg Tyr Ala Ala Leu Leu
 35 40 45
 Pro Ala Leu Ile Leu Leu Ser Ala Cys Ser Ser Lys Pro Lys Thr Glu
 50 55 60
 Ala Val Gln Pro Thr Ala Gly Ala Pro Ser Gly Gly Phe Leu Leu Glu
 65 70 75 80
 Pro Gln His Asn Met Met Gln Met Gly Gly Asp Phe Ala Asn Asn Pro
 85 90 95
 Ala Ala Glu Gln Phe Ile Asp Lys Met Val Ser Lys His Gly Phe Asp
 100 105 110
 Arg Gln Gln Leu His Ala Ile Leu Ser Gln Ala Lys Arg Leu Asp Tyr
 115 120 125
 Val Leu Arg Leu Met Asp Arg Gln Ala Pro Thr Ala Gln Val Pro Thr
 130 135 140
 Gly Pro Asn Gly Ala Trp Leu Arg Tyr Arg Lys Gln Phe Ile Thr Pro
 145 150 155 160
 Asp Asn Val Gln Asn Gly Val Val Phe Trp Asn Gln Tyr Glu Asp Ala
 165 170 175
 Leu Asn Arg Ala Trp Gln Val Tyr Gly Val Pro Pro Glu Ile Ile Val
 180 185 190
 Gly Ile Ile Gly Val Glu Thr Arg Trp Gly Arg Ile Met Gly Lys Thr
 195 200 205
 Arg Ile Leu Asp Ala Leu Ala Thr Leu Ser Phe Asn Tyr Pro Arg Arg
 210 215 220
 Ala Glu Tyr Phe Ser Ser Glu Leu Glu Thr Phe Leu Leu Met Ala Arg
 225 230 235 240
 Asp Glu Gln Asp Asp Pro Leu Asp Leu Lys Gly Ser Phe Ala Gly Ala
 245 250 255
 Met Gly Tyr Gly Gln Phe Met Pro Ser Ser Tyr Lys Gln Tyr Ala Val
 260 265 270
 Asp Phe Asn Gly Asp Gly His Ile Asn Leu Trp Asp Pro Glu Asp Ala
 275 280 285
 Ile Gly Ser Val Ala Asn Tyr Phe Lys Ala His Gly Trp Thr Pro Gly
 290 295 300
 Gly Gln Val Ala Val Gln Ala Asn Gly Glu Ala Phe Gly Leu Glu Asn
 305 310 315 320
 Gly Phe Lys Thr Lys Tyr Ser Val Ala Gln Leu Ala Ala Ala Gly Leu
 325 330 335
 Thr Pro Ser Gln Pro Leu Gly Asn Val Asp Gln Val Ser Leu Leu Arg
 340 345 350
 Leu Asp Gly Leu His His Gly Ala Arg Arg Ser Arg Ala Lys Arg Ile
 355 360 365
 Lys Glu Xaa
 370

<210> 9666

<211> 507

<212> PRT

<213> Enterobacter cloacae

<400> 9666

Pro Val Phe Ser Thr Ser Leu Val Trp Ser Ile Lys Lys Pro Asp Ala
 1 5 10 15
 Gly Lys Val Cys Arg Gln Arg Asn Ile Phe His Arg Arg Ile Lys Met
 20 25 30
 Ala Phe Asp Asp Leu Arg Ser Phe Leu Gln Ala Leu Asp Glu Gln Gly
 35 40 45
 Gln Leu Leu Lys Ile Glu Glu Glu Val Asn Ala Glu Pro Asp Leu Ala
 50 55 60
 Ala Ala Ala Asn Ala Thr Gly Arg Ile Gly Asp Gly Ala Pro Ala Leu

65					70					75					80
Trp	Phe	Asp	Asn	Ile	Arg	Gly	Phe	Thr	Asp	Ala	Arg	Val	Val	Met	Asn
			85						90					95	
Thr	Ile	Gly	Ser	Trp	Gln	Asn	His	Ala	Ile	Ser	Met	Gly	Leu	Pro	Ala
			100					105					110		
Asn	Thr	Pro	Val	Lys	Lys	Gln	Ile	Asp	Glu	Phe	Ile	Arg	Arg	Trp	Asp
			115				120					125			
Lys	Phe	Pro	Val	Ser	Pro	Glu	Arg	Arg	Ala	Asn	Pro	Ala	Trp	Ala	Gln
	130					135					140				
Asn	Thr	Val	Asp	Gly	Glu	Asp	Ile	Asn	Leu	Phe	Asp	Ile	Leu	Pro	Leu
145					150					155					160
Phe	Arg	Leu	Asn	Asp	Gly	Asp	Gly	Gly	Phe	Tyr	Leu	Asp	Lys	Ala	Cys
			165						170					175	
Val	Val	Ser	Arg	Asp	Pro	Leu	Asp	Pro	Asp	His	Phe	Gly	Lys	Gln	Asn
			180					185					190		
Val	Gly	Ile	Tyr	Arg	Met	Glu	Val	Lys	Gly	Lys	Arg	Lys	Leu	Gly	Leu
		195					200					205			
Gln	Pro	Val	Pro	Met	His	Asp	Ile	Ala	Leu	His	Leu	His	Lys	Ala	Glu
	210					215						220			
Glu	Arg	Gly	Glu	Asp	Leu	Pro	Ile	Ala	Ile	Thr	Leu	Gly	Asn	Asp	Pro
225					230					235					240
Ile	Ile	Thr	Leu	Met	Gly	Ala	Thr	Pro	Leu	Lys	Tyr	Asp	Gln	Ser	Glu
			245					250						255	
Tyr	Glu	Met	Ala	Gly	Ala	Leu	Arg	Glu	Ser	Pro	Tyr	Pro	Ile	Ala	Thr
		260						265					270		
Ala	Pro	Leu	Thr	Gly	Phe	Asp	Val	Pro	Trp	Gly	Ser	Glu	Val	Ile	Leu
		275					280					285			
Glu	Gly	Val	Ile	Glu	Gly	Arg	Lys	Arg	Glu	Ile	Glu	Gly	Pro	Phe	Gly
	290				295						300				
Glu	Phe	Thr	Gly	His	Tyr	Ser	Gly	Gly	Arg	Asn	Met	Thr	Val	Val	Arg
305					310					315					320
Ile	Asp	Lys	Val	Ser	Tyr	Arg	Thr	Lys	Pro	Ile	Phe	Glu	Ser	Leu	Tyr
			325						330					335	
Leu	Gly	Met	Pro	Trp	Thr	Glu	Ile	Asp	Tyr	Leu	Met	Gly	Pro	Ala	Thr
		340						345					350		
Cys	Val	Pro	Leu	Tyr	Gln	Gln	Leu	Lys	Ser	Glu	Phe	Pro	Glu	Val	Gln
	355						360					365			
Ala	Val	Asn	Ala	Met	Tyr	Thr	His	Gly	Leu	Leu	Ala	Ile	Ile	Ser	Thr
	370					375					380				
Lys	Lys	Arg	Tyr	Gly	Gly	Phe	Ala	Arg	Ala	Val	Gly	Leu	Arg	Ala	Met
385					390					395					400
Thr	Thr	Pro	His	Gly	Leu	Gly	Tyr	Val	Lys	Met	Val	Ile	Met	Val	Asp
			405						410					415	
Glu	Asp	Val	Asp	Pro	Phe	Asn	Leu	Pro	Gln	Val	Met	Trp	Ala	Leu	Ser
		420						425					430		
Ser	Lys	Val	Asn	Pro	Ala	Gly	Asp	Leu	Val	Gln	Leu	Pro	Asn	Met	Ser
		435					440					445			
Val	Leu	Glu	Leu	Asp	Pro	Gly	Ser	Ser	Pro	Ala	Gly	Ile	Thr	Asp	Lys
	450					455					460				
Leu	Ile	Ile	Asp	Ala	Thr	Thr	Pro	Val	Ala	Pro	Asp	Asn	Arg	Gly	His
465					470					475					480
Tyr	Ser	Gln	Pro	Val	Gln	Asp	Leu	Pro	Glu	Thr	Lys	Ala	Trp	Ala	Glu
			485						490					495	
Lys	Leu	Thr	Ala	Met	Leu	Ala	Ala	Arg	Gln						
			500					505							

<210> 9667

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 9667

Arg Thr Ser Leu Met Thr Lys Lys Ala Thr Val Leu Leu Phe Leu Val
 1 5 10 15
 Phe Phe Leu Ala Gly Ala Leu Ala Ala Trp Leu Tyr Arg Leu His Gln
 20 25 30
 Gln Asn Ser Glu Asn Thr Glu Ala Cys Ser Ala Ser Ile Val Val Tyr
 35 40 45
 His Glu Asp Ile Arg Ala Asn Leu Thr Met Asp Phe Met Tyr Thr Met
 50 55 60
 Lys Lys Gln Thr Gly Val Ile Ala Leu Ser Gly Ala Tyr Tyr Lys Asn
 65 70 75 80
 Asp Lys Leu Ala Gly Val Ile Arg Arg Asp Val Ser Tyr Val Trp Thr
 85 90 95
 Glu Asn Lys Asp Ser Phe His Phe Thr Ser Val Asn Ile His Asp Ile
 100 105 110
 Asn Gly Gln Gln Thr Ala Pro Asn Glu Ile Met Asn Glu Ile Leu Pro
 115 120 125
 Asp Phe Phe Leu Tyr Pro Lys Lys Asn Leu Asn Tyr Ser Ile Thr Gln
 130 135 140
 Gln Gly Pro Arg Gly Phe Met Phe Ser Val Gly Lys Arg Pro Ile Phe
 145 150 155 160
 Tyr Cys Ser Arg
 165

<210> 9668

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 9668

Pro Ser Pro Glu Asp Asp Pro Val Asn Arg Phe Val Ile Ala Asp Ser
 1 5 10 15
 Thr Val Cys Ile Gly Cys Arg Thr Cys Glu Ala Ala Cys Ser Glu Thr
 20 25 30
 His Arg Leu His Gly Leu Gln Ser Met Pro Arg Leu Arg Val Met Arg
 35 40 45
 Asn Glu Lys Glu Ser Ala Pro Gln Leu Cys His His Cys Glu Asp Ala
 50 55 60
 Pro Cys Ala Gly Val Cys Pro Val Asn Ala Ile Thr Arg Val Asp Gly
 65 70 75 80
 Ala Val Gln Leu Asn Glu Ser Leu Cys Val Ser Cys Lys Leu Cys Gly
 85 90 95
 Ile Ala Cys Pro Phe Gly Ala Ile Glu Phe Ser Gly Ser Arg Pro Leu
 100 105 110
 His Ile Pro Ala Asn Ala Asn Thr Pro Lys Ala Pro Pro Ala Pro Pro
 115 120 125
 Ala Pro Ala Arg Val Ser Thr Leu Leu Asp Trp Val Pro Gly Ile Arg
 130 135 140
 Ala Val Ala Val Lys Cys Asp Leu Cys Ser Phe Asp Glu Gln Gly Pro
 145 150 155 160
 Ala Cys Val Arg Thr Cys Pro Thr Arg Ala Leu Val Leu Val Asn Ile
 165 170 175
 Arg Asp Ile Ala Arg Thr Ser Lys Arg Lys Arg Glu Leu Thr Ile Asn
 180 185 190
 Thr Asp Val Gly Asp Leu Ser Leu Leu Arg Ala Leu Asn Glu Gly Ala
 195 200 205
 Lys
 210

<210> 9669

<211> 316

<212> PRT

<213> *Enterobacter cloacae*

<400> 9669

```

Leu Ser Phe His Glu Glu Pro Asp Met Ser Leu Leu Leu Ala Ile Leu
1      5      10      15
Gln Ala Leu Val Leu Phe Ala Ala Ala Pro Leu Leu Ser Gly Ile Thr
20      25      30
Arg Val Ala Arg Ala Arg Leu His Asn Arg Arg Gly Pro Gly Val Leu
35      40      45
Gln Glu Tyr Arg Asp Leu Phe Lys Leu Leu Ser Arg Gln Ser Val Ala
50      55      60
Pro Asp Ala Ala Gly Trp Val Phe Arg Leu Thr Pro Phe Val Met Val
65      70      75
Gly Val Met Leu Thr Ile Ala Thr Ala Leu Pro Val Val Thr Val Ala
85      90      95
Ser Pro Leu Pro Val Leu Gly Asp Leu Ile Thr Leu Ile Tyr Leu Phe
100     105
Ala Ile Ala Arg Phe Phe Phe Ala Ile Ala Gly Leu Asp Thr Gly Ser
115     120     125
Pro Phe Thr Gly Ile Gly Ala Ser Arg Glu Ala Met Leu Gly Val Leu
130     135     140
Val Glu Pro Ile Leu Leu Leu Gly Leu Trp Val Ala Ala Gln Val Ala
145     150     155
Gly Ser Thr His Ile Ser Phe Ile Thr Asp Thr Val Tyr His Trp Pro
165     170     175
Val Ser Arg Ser Leu Pro Leu Val Leu Ala Leu Cys Ala Cys Ala Phe
180     185     190
Ala Thr Phe Ile Glu Met Gly Lys Leu Pro Phe Asp Leu Ala Glu Ala
195     200     205
Glu Gln Glu Leu Gln Glu Gly Pro Leu Thr Glu Tyr Ser Gly Tyr Gly
210     215     220
Phe Ala Val Leu Lys Trp Gly Ile Ser Leu Lys Gln Leu Val Val Leu
225     230     235
Gln Met Phe Val Gly Val Phe Phe Pro Trp Gly Gln Met Thr His Phe
245     250     255
Ser Ala Gly Gly Leu Leu Leu Ala Val Val Val Ala Val Leu Lys Leu
260     265     270
Leu Ile Gly Val Leu Val Ile Ala Leu Phe Glu Asn Ser Met Ala Arg
275     280     285
Leu Arg Phe Val Glu Thr Ser Arg Ile Thr Trp Ala Gly Phe Gly Phe
290     295     300
Ala Phe Leu Ala Phe Val Ser Leu Leu Val Ala
305     310     315

```

<210> 9670

<211> 575

<212> PRT

<213> *Enterobacter cloacae*

<400> 9670

```

Leu Lys Arg Val Phe Met Ser Glu Glu Lys Lys Gly Gln Gln Tyr Leu
1      5      10      15
Ala Ala Leu His Gln Ala Phe Pro Gly Val Val Leu Glu Glu Ser Trp
20      25      30
Gln Thr Lys Asp Gln Ile Thr Val Thr Ile Lys Val Asn Tyr Leu Pro
35      40      45
Glu Val Val Glu Phe Leu Tyr Tyr Gln Gln Gly Gly Trp Leu Ser Val
50      55      60
Leu Phe Gly Asn Asp Glu Arg Gln Leu Cys Gly Ser Tyr Ala Val Tyr
65      70      75      80

```

Tyr Val Met Ser Met Glu Gln Gly Glu Lys Cys Trp Ile Thr Val Arg
 85 90 95
 Val Glu Val Asp Pro Asn Lys Pro Glu Tyr Pro Ser Val Thr Pro Arg
 100 105 110
 Val Pro Ala Ala Val Trp Gly Glu Arg Glu Val Arg Asp Met Tyr Gly
 115 120 125
 Leu Val Pro Val Gly Leu Pro Asp Glu Arg Arg Leu Val Leu Pro Asp
 130 135 140
 Asp Trp Pro Asp Glu Leu Tyr Pro Leu Arg Lys Asp Ser Met Asp Tyr
 145 150 155 160
 Arg Gln Arg Pro Ala Pro Thr Thr Asp Ser Glu Thr Tyr Glu Phe Ile
 165 170 175
 Asn Glu Leu Gly Ser Lys Lys Asn Asn Val Val Pro Ile Gly Pro Leu
 180 185 190
 His Val Thr Ser Asp Glu Pro Gly His Phe Arg Leu Phe Val Asp Gly
 195 200 205
 Glu Asn Ile Ile Asp Ala Asp Tyr Arg Leu Phe Tyr Val His Arg Gly
 210 215 220
 Met Glu Lys Leu Ala Glu Thr Arg Met Gly Tyr Asn Glu Val Thr Phe
 225 230 235 240
 Leu Ser Asp Arg Val Cys Gly Ile Cys Gly Phe Ala His Ser Thr Ala
 245 250 255
 Tyr Thr Thr Ser Val Glu Asn Gly Met Gly Ile Val Val Pro Glu Arg
 260 265 270
 Ala Gln Met Ile Arg Ala Ile Leu Leu Glu Val Glu Arg Leu His Ser
 275 280 285
 His Leu Leu Asn Leu Gly Leu Ala Cys His Phe Val Gly Phe Asp Ser
 290 295 300
 Gly Phe Met Gln Phe Phe Arg Val Arg Glu Ala Ser Met Lys Met Ala
 305 310 315 320
 Glu Ile Leu Thr Gly Ala Arg Lys Thr Tyr Gly Leu Asn Leu Ile Gly
 325 330 335
 Gly Ile Arg Arg Asp Leu Leu Lys Asp Asp Met Ile Gln Thr Arg Gln
 340 345 350
 Leu Ala Gln Gln Met Arg Arg Asp Val Gln Glu Leu Val Asp Met Leu
 355 360 365
 Leu Ser Thr Pro Asn Ile Glu Gln Arg Thr Val Gly Ile Gly Arg Leu
 370 375 380
 Asp Pro Glu Ile Ala Arg Asp Phe Ser Asn Val Gly Pro Met Val Arg
 385 390 395 400
 Ala Ser Gly His Ala Arg Asp Thr Arg Ala Asp His Pro Phe Val Gly
 405 410 415
 Tyr Gly Leu Leu Pro Met Thr Val His Ser Glu Gln Gly Cys Asp Val
 420 425 430
 Ile Ser Arg Leu Lys Val Arg Ile Asn Glu Val Phe Thr Ala Leu Asn
 435 440 445
 Met Ile Asp Tyr Gly Leu Asp Asn Leu Pro Gly Gly Pro Leu Met Val
 450 455 460
 Glu Gly Phe Thr Tyr Ile Pro Asn Arg Phe Ala Leu Gly Phe Ala Glu
 465 470 475 480
 Ala Pro Arg Gly Asp Asp Ile His Trp Ser Met Thr Gly Asp Asn Gln
 485 490 495
 Lys Leu Tyr Arg Trp Arg Cys Arg Ala Ala Thr Tyr Ala Asn Trp Pro
 500 505 510
 Thr Leu Arg Tyr Met Leu Arg Gly Asn Thr Val Ser Asp Ala Pro Leu
 515 520 525
 Ile Ile Gly Ser Leu Asp Pro Cys Tyr Ser Cys Thr Asp Arg Met Thr
 530 535 540
 Val Val Asp Val Arg Lys Lys Lys Ser Gln Val Val Pro Tyr Lys Glu
 545 550 555 560
 Leu Glu Arg Tyr Ser Ile Glu Arg Lys Asn Ser Pro Leu Lys

<210> 9671
 <211> 184
 <212> PRT
 <213> Enterobacter cloacae

<400> 9671

Gly	Phe	Ala	Met	Phe	Thr	Phe	Ile	Lys	Lys	Val	Ile	Lys	Thr	Gly	Ala
1			5						10					15	
Gln	Thr	Ser	Ser	Tyr	Pro	Leu	Glu	Pro	Ile	Pro	Val	Asp	Lys	Asn	Phe
		20						25					30		
Arg	Gly	Lys	Pro	Glu	His	Asn	Pro	Gln	Gln	Cys	Ile	Gly	Cys	Ala	Ala
		35				40						45			
Cys	Val	Asn	Ala	Cys	Pro	Ser	Asn	Ala	Leu	Thr	Val	Glu	Thr	Asp	Leu
	50					55					60				
Lys	Thr	Gly	Glu	Leu	Ala	Trp	Gln	Phe	Asn	Leu	Gly	Arg	Cys	Ile	Phe
65				70						75					80
Cys	Gly	Arg	Cys	Glu	Glu	Val	Cys	Pro	Thr	Val	Ala	Ile	Arg	Leu	Ser
				85					90					95	
Gln	Glu	Tyr	Glu	Leu	Ala	Val	Trp	Lys	Lys	Glu	Asp	Phe	Leu	Gln	Gln
			100					105					110		
Ser	Arg	Phe	Ala	Leu	Cys	Asn	Cys	Arg	Val	Cys	Lys	Arg	Pro	Phe	Ala
		115					120					125			
Val	Gln	Lys	Glu	Ile	Asp	Tyr	Ala	Ile	Ala	Leu	Leu	Lys	His	Asn	Gly
	130				135						140				
Asp	Val	Arg	Ala	Glu	His	His	Arg	Glu	Ser	Phe	Glu	Thr	Cys	Pro	Glu
145					150					155					160
Cys	Lys	Arg	Gln	Lys	Cys	Leu	Leu	Pro	Ser	Asp	Arg	Ile	Asp	Leu	Thr
				165					170					175	
Arg	His	Met	Arg	Glu	Ala	Ser									
			180												

<210> 9672
 <211> 791
 <212> PRT
 <213> Enterobacter cloacae

<400> 9672

Pro	Leu	Leu	Pro	Pro	Arg	Arg	Arg	Ser	Gly	Val	Tyr	Gly	Ser	Leu	Ser
1			5						10					15	
Asp	Ala	Cys	Ala	Gly	Leu	Arg	Arg	Ser	Arg	Gln	Ala	Arg	Thr	Asp	Glu
		20						25					30		
Cys	Arg	Lys	Thr	Ser	Pro	Arg	Gly	Val	Arg	His	Leu	Val	Ile	Thr	Ala
		35					40					45			
Val	Leu	Asn	Arg	Met	Ser	Ser	Asn	Gly	Val	Gln	Leu	Arg	Val	Arg	Gly
	50					55					60				
Lys	Val	Gln	Gly	Val	Gly	Phe	Arg	Pro	Phe	Val	Trp	Gln	Leu	Ala	His
65				70						75					80
Arg	Leu	Lys	Leu	Val	Gly	Asp	Val	Cys	Asn	Asp	Gly	Glu	Gly	Val	Leu
			85						90					95	
Val	Arg	Leu	Ala	Gly	Ser	Gly	Gly	Asp	Phe	Thr	Ala	Arg	Leu	Arg	Gln
			100					105					110		
Asp	Cys	Pro	Pro	Leu	Ala	Arg	Ile	Asp	Arg	Val	Glu	Thr	Gln	Pro	Tyr
		115					120					125			
Ser	Trp	Asn	Thr	Leu	Pro	Asp	Glu	Phe	Val	Ile	Arg	His	Ser	Glu	Ser
	130					135					140				
Gly	Ala	Met	Asp	Thr	Gln	Ile	Val	Pro	Asp	Ala	Ala	Thr	Cys	Pro	Ala
145					150					155					160
Cys	Leu	Ala	Glu	Met	Arg	Asp	Pro	Arg	Glu	Arg	Arg	Tyr	Arg	Tyr	Pro
				165					170					175	

Phe	Ile	Asn	Cys	Thr	His	Cys	Gly	Pro	Arg	Phe	Thr	Ile	Ile	Arg	Ala	
			180					185					190			
Met	Pro	Tyr	Asp	Arg	Pro	Ala	Thr	Ser	Met	Ala	Pro	Phe	Pro	Leu	Cys	
		195					200					205				
Met	Pro	Cys	Glu	Thr	Glu	Tyr	Arg	Asn	Pro	Ala	Asp	Arg	Arg	Phe	His	
	210					215					220					
Ala	Gln	Pro	Val	Ala	Cys	Pro	Asp	Cys	Gly	Pro	Gln	Leu	Glu	Trp	Arg	
225					230					235					240	
Ala	Gly	Glu	Ala	Thr	Ala	Thr	Arg	Glu	Ser	Ala	Leu	Ser	Ala	Ala	Val	
				245					250					255		
Ala	Met	Leu	Glu	Gly	Gly	Gly	Ile	Val	Ala	Val	Lys	Gly	Leu	Gly	Gly	
		260						265					270			
Phe	His	Leu	Val	Cys	Asp	Ala	Leu	Asn	Pro	Gln	Ala	Ile	Arg	Lys	Leu	
	275						280					285				
Arg	Ala	Arg	Lys	Gln	Arg	Pro	Thr	Arg	Pro	Leu	Ala	Val	Met	Ile	Pro	
	290					295				300						
His	Ala	Asn	Asp	Leu	Pro	Lys	Thr	Ile	Gln	Thr	Leu	Leu	Arg	Ser	Pro	
305					310					315					320	
Ala	Ala	Pro	Ile	Met	Leu	Thr	Pro	Lys	Ala	Cys	Leu	Pro	Ala	Phe	Pro	
				325					330					335		
Glu	Glu	Ile	Ala	Pro	Gly	Leu	Asn	Thr	Val	Gly	Val	Met	Leu	Pro	Ala	
		340						345					350			
Asn	Pro	Leu	Gln	His	Leu	Leu	Met	Leu	Asp	Cys	Gln	Arg	Pro	Leu	Val	
		355					360					365				
Met	Thr	Ser	Gly	Asn	Leu	Ser	Gly	Tyr	Pro	Pro	Val	Ile	Asn	Asn	Gln	
	370					375					380					
Gln	Ala	Leu	Glu	Glu	Leu	Ser	Asp	Ile	Ala	Asp	Gly	Phe	Leu	Leu	His	
385					390					395					400	
Asn	Arg	Asp	Ile	Leu	Gln	Arg	Met	Asp	Asp	Ser	Val	Met	Asp	Gln	Glu	
			405						410					415		
Gly	Thr	Met	Leu	Arg	Arg	Ala	Arg	Gly	Phe	Val	Pro	Asp	Ala	Ile	Thr	
		420						425					430			
Leu	Pro	Ala	Gly	Phe	Arg	Asp	Ile	Pro	Pro	Met	Leu	Cys	Thr	Gly	Ala	
		435					440					445				
Glu	Met	Lys	Asn	Thr	Phe	Cys	Leu	Val	Arg	Gly	Asn	Gln	Ala	Val	Leu	
	450					455					460					
Ser	Gln	His	Phe	Gly	Asp	Leu	Ser	Asp	Glu	Gly	Val	Glu	Ala	Gln	Trp	
465					470					475					480	
Arg	Ser	Ala	Leu	Ser	Thr	Met	Gln	Glu	Ile	Tyr	Ala	Phe	Gln	Pro	Glu	
				485					490					495		
Arg	Val	Val	Cys	Asp	Ala	His	Pro	Gly	Tyr	His	Ala	Arg	Gln	Trp	Ala	
		500						505					510			
Arg	Thr	Gln	Ala	Leu	Pro	Val	Glu	Thr	Val	Leu	His	His	His	Ala	His	
		515					520					525				
Ala	Val	Ala	Cys	Leu	Ala	Glu	Asn	Gly	Trp	Pro	Leu	Asp	Gly	Gly	Asp	
	530					535						540				
Val	Ile	Ala	Leu	Thr	Leu	Asp	Gly	Ile	Gly	Met	Gly	Glu	Asn	Gly	Ala	
545					550					555					560	
Leu	Trp	Gly	Gly	Glu	Cys	Leu	Arg	Val	Asn	Tyr	Arg	Asp	Cys	Glu	Arg	
			565						570					575		
Leu	Gly	Gly	Leu	Pro	Ala	Val	Ala	Leu	Pro	Gly	Gly	Asp	Leu	Ala	Ala	
			580					585					590			
Lys	Gln	Pro	Trp	Arg	Asn	Leu	Leu	Ala	His	Cys	Leu	Ala	Phe	Val	Pro	
		595				600						605				
Asp	Trp	Gln	Gln	Tyr	Pro	Glu	Thr	Val	Val	Val	Gln	Arg	Gln	Asn	Trp	
	610					615						620				
Pro	Leu	Leu	Ala	Thr	Ala	Val	Ser	Arg	Gly	Ile	Asn	Ala	Pro	Arg	Ala	
625					630					635					640	
Ser	Ser	Cys	Gly	Arg	Leu	Phe	Asp	Ala	Val	Ala	Cys	Ala	Leu	Gly	Ile	
				645					650					655		
Glu	Thr	Gln	Arg	Tyr	Glu	Gly	Glu	Ala	Ala	Cys	Arg	Leu	Glu	Ala	Leu	

Ala	Glu	Arg	Cys	Ala	Gly	Val	Asp	His	Pro	Val	Thr	Leu	Gln	Thr	Asp
		675					680					685			
Asn	Leu	Ala	Leu	Phe	Trp	Gln	Gln	Trp	Leu	Ala	Trp	Arg	Ala	Glu	Pro
		690					695					700			
Gly	Glu	Arg	Ala	Trp	Ala	Phe	His	Asp	Ala	Leu	Ala	Lys	Gly	Leu	Ser
705					710						715				720
Glu	Leu	Ala	Ala	Thr	His	Ala	Arg	Arg	Arg	Ser	Leu	Ser	Thr	Val	Cys
				725						730				735	
Phe	Ser	Gly	Gly	Val	Leu	His	Asn	Arg	Leu	Leu	Arg	Ala	Arg	Leu	Arg
			740					745					750		
His	Tyr	Leu	Ser	Asp	Phe	Thr	Leu	Leu	Phe	Pro	Ser	Arg	Leu	Pro	Ala
		755					760					765			
Gly	Asp	Gly	Ala	Ile	Ser	Phe	Gly	Gln	Ala	Val	Val	Ala	Ala	Ala	Arg
		770					775					780			
Ser	Cys	Ser	Gln	Arg	Ile										
785					790										

<210> 9673

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 9673

Thr	Lys	Gly	Ala	Gly	Ala	Phe	Val	Thr	Glu	Ala	Gln	Ala	Gly	His	Leu
1				5					10					15	
Phe	His	Gln	Ser	Gly	Asn	Phe	Arg	His	His	His	Val	Ile	His	Gly	Gly
			20					25					30		
Gly	Thr	His	Gln	His	Ala	Phe	Gly	Ala	Glu	Asp	Val	Gly	Gln	Tyr	Leu
		35					40					45			
Ile	Leu	Ile	Ala	Ala	Arg	His	Val	Glu	Asp	Phe	His	Arg	His	Val	Arg
	50					55					60				
Val	Asn	Phe	Val	Asp	Ala	Leu	Gly	Asn	Gly	Val	Arg	His	His	Ala	Gly
65					70					75				80	
Val	Val	Gly	His	Gly	Val	Val	Glu	Asp	Arg	Asn	Ala	Val	Phe	Leu	Ile
				85					90					95	
Val	Arg	Arg	Pro	Leu	Gln	Val	Gln	Phe	Asp	Asn	Leu	Gly	Trp	Ile	Phe
			100					105					110		
Thr	Pro	Tyr	His	Ala	Val	Gly	Gly	Gly	Asn	His	Ile	His	Arg	Gln	Val
		115					120					125			
Glu	Ala	Glu	Asp	Leu	Gly	Asp	Phe	Trp	Arg	Asp	Gln	Thr	Ala	Glu	Arg
		130				135					140				
Gly	Gln	Asp	Val	Gly	Val	Val	Ala	Leu	Ala	Leu	Phe	Glu	Gln	Leu	Gly
145					150					155				160	
Leu	Ile	His	Phe	Val	Val	Glu	Gln	Thr	Phe	Val	Ala	Val	Val	Leu	Ala
				165					170					175	
Glu	Gly	Val	Val	Thr	Glu	Gln	His	Arg	Val	Thr	Gly	His	Val	Gly	His
			180					185					190		
His	Ala	Val	Arg	Pro	Val	Gln	His	Trp	Gly	Phe	His	Glu	Asp	Gln	Leu
		195					200					205			
Phe	Ala	Val	Ala	Asp	Ile	Gln	Arg	Val	Ala	Gly	Phe	His	Ser	Val	Glu
		210				215					220				
Val	Pro	Leu	Arg	Met	Val	Val	Val	Ala	Val	Asp	Gly	Val	Asn	Gly	Val
225					230					235				240	
Ser	Gly	Ala	Val	Asp	Arg	Gly	Ile	Arg	Asn	Val	Gly	His	Gln	Leu	Gly
				245					250					255	
Gln	Arg	Pro	Gly	Met	Ile	Leu	Phe	Arg	Val	Val	Asp	Asp	Asn	Val	Val
			260					265					270		
Asp	Leu	Ile	Gln	Ile	Asp	Phe	Ala	Ala	Gln	Val	Leu	His	Glu	Leu	Ala
		275					280					285			
Ala	Glu	Phe	Val	Ile	Asp	Gly	Ile	Asp	Gln	Asp	Val	Phe	Thr	Phe	Thr

290	295	300
Asn Glu Ile Ala Val Val Ala Ala Ala Ala Gln Arg Phe Val Phe Arg		
305	310	315
Pro Val Lys Ile Thr Tyr Phe Pro Val Thr Leu Thr His Pro Met Asn		
	325	330
Val Ile Phe Asn Gln Asn Arg His Ser Asn Leu Asn Leu Ile Arg Arg		
	340	345
Phe Gln Ile Arg		350
355		

<210> 9674

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 9674

Gln Leu Thr Arg Gln Ala Met Leu Asn Leu Gln Arg Thr Ala Met Phe	
1 5 10 15	
Ile Ala Val Ala Asp Thr Gly Ser Phe Thr Ala Ala Ala Glu Ala Met	
20 25 30	
Gly Leu Thr Lys Ala Val Val Ser Phe His Ile Arg Gln Leu Glu Glu	
35 40 45	
Glu Leu Gly Val Thr Leu Leu Arg Thr Thr Arg Arg Leu Thr Leu	
50 55 60	
Thr Glu Ala Gly Lys Leu Phe His Gln Arg Ser Val Met Leu Leu Arg	
65 70 75 80	
Asp Ala Glu Arg Leu Gln Asp Asp Val Arg Ala Asn His Ala Gly Leu	
85 90 95	
Thr Gly Glu Leu Arg Ile Thr Thr Thr Pro Glu Tyr Gly Ser Gln Val	
100 105 110	
Val Val Pro Leu Leu Ala Glu Phe Ser Gln Leu His Pro Asp Leu Arg	
115 120 125	
Val Arg His Val Ser Ser Ser Leu His Ala Asp Leu Ile Ala Glu Arg	
130 135 140	
Phe Asp Val Ala Ile Arg Leu Gly Thr Leu Ala Asp Ser Arg Tyr His	
145 150 155 160	
Ala Ala Leu Met Thr Ser Phe Thr Ile Leu Pro Val Ala Thr Pro Gly	
165 170 175	
Trp Leu Ala Asn His Pro Val Asp Ser Leu Glu Gln Leu Ala Glu Ala	
180 185 190	
Asp Trp Ile Ile His Glu Arg Leu Thr Ser Pro Leu Arg Trp Gln Val	
195 200 205	
Arg Gly Val Asp Gly His Pro Val Ser Phe Glu Ile Lys Lys Ala Pro	
210 215 220	
Arg Leu Tyr Ala Asp Ser Ala Gln Ala Leu Met Ala Phe Ala Leu Ala	
225 230 235 240	
Gly Cys Gly Val Ala Leu Leu Pro Glu Trp Leu Val Arg Asn Ala Leu	
245 250 255	
Asp Ala Gly Glu Leu Val Ser Leu Leu Pro Ala Tyr Thr Phe Ala Gln	
260 265 270	
Gln Gly Ile Tyr Ala Val Tyr Pro Asp Ala Arg His Val Pro Ala Lys	
275 280 285	
Val Arg Thr Phe Ile Asp Phe Met Arg Val Arg Val Thr	
290 295 300	

<210> 9675

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 9675

```

Pro Arg Cys Trp Arg His Val Asn Lys Glu Glu Lys Met Ile Cys Pro
1          5          10          15
Arg Cys Ala Asp Glu His Ile Glu Val Met Ala Thr Ser Pro Val Lys
          20          25          30
Gly Val Trp Thr Val Tyr Gln Cys Gln His Cys Leu Tyr Thr Trp Arg
          35          40          45
Asp Thr Glu Pro Leu Arg Arg Thr Ser Arg Glu His Tyr Pro Glu Ala
          50          55          60
Phe Arg Met Thr Gln Lys Asp Ile Asp Glu Ala Pro Gln Val Pro Thr
65          70          75          80
Ile Pro Pro Leu Leu
          85

```

<210> 9676

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 9676

```

Gln Gly Leu Thr Ala Glu Tyr Asn Tyr Thr Ser Pro Arg Gln Leu Thr
1          5          10          15
Ile Leu Phe Ile Val Ser Glu Arg His Met Phe Trp Ile Ile Asn Asp
          20          25          30
Lys Ile Lys Phe Cys Pro Glu Arg Asn Leu Leu Ile Ser Leu Thr Arg
          35          40          45
Pro Asp Leu Asn Val Ile Leu Thr Thr Pro Ala Ser Arg Cys Leu Asn
          50          55          60
Leu Leu Leu Glu Ser Phe Pro Glu Val Val Thr Gln Lys Tyr Phe Phe
65          70          75          80
Asp Lys Val Trp Gly Glu Asp Gly Met Leu Val Pro Ala Asn Thr Leu
          85          90          95
Tyr Gln Asn Ile Ser Ile Ile Arg Arg Gly Leu Arg Thr Thr Gly Glu
          100          105          110
Thr Asp Asp Thr Leu Val Ala Thr Val Pro Arg Lys Gly Phe Gln Ile
          115          120          125
Glu Lys Asn Val Arg Val Thr Arg Val Asp Thr Asp Cys Val Asp Asp
          130          135          140
Gly Lys Lys Ala Thr Ala Thr Gly Val Glu Thr Ser Pro Val Glu Thr
          145          150          155          160
Lys Asp Lys Pro Val Glu Asn Ile Pro Val Met Pro Gly Gly Arg Lys
          165          170          175
Lys Gln Arg Gln Leu Arg Gln Tyr Ile Phe Pro Thr Ala Leu Met Ile
          180          185          190
Ile Ala Phe Cys Ala Gly Phe Phe Ala Phe Gln Tyr Leu Leu His Asp
          195          200          205
Asn Pro Glu Lys Asp Phe Phe Arg Asp Tyr Pro Ile Thr Leu Thr Gln
          210          215          220
Asn Gly Cys His Phe Ser Ser Gln Asn Asp Asp Ile Arg Gly Val Gly
          225          230          235          240
Asn Phe Arg Arg Phe Ile Lys Ile Ile Leu Asp Thr Gly Leu Asp Cys
          245          250          255
Lys Lys Tyr Pro Trp Val Tyr Phe Ser Ser Ser Ser His Ala Pro Ala
          260          265          270
Leu Ser Val Leu Ala Cys Arg Glu Pro Phe Glu Ile Lys Ala Asn Ala
          275          280          285
Gly Cys Ile Ser Leu Tyr Phe Arg Gly His Leu
          290          295          300

```

<210> 9677

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 9677

Gly Ala Tyr Pro Met Ser Glu Thr Val Val Phe Ser Gln Leu Ser Arg
 1 5 10 15
 Lys Phe Ile Asp Glu Asn Asp Ala Thr Pro Asp Ala Ala Gln Val
 20 25 30
 Val Tyr Tyr Ser Leu Ala Ile Gly His His Leu Gly Val Ile Asp Cys
 35 40 45
 Leu Glu Ala Ala Leu Thr Cys Pro Trp Pro Glu Tyr Leu Ala Trp Ile
 50 55 60
 Val Thr Leu Glu Glu Gly Ser Thr Ala Arg Arg Lys Met Glu Gly Val
 65 70 75 80
 Pro Lys Tyr Gly Glu Ile Val Ile Asp Ala Asn His Ile Ala Met Leu
 85 90 95
 Ala Asn Ala Phe Asp Ala Ala Leu Ser Val Gln Thr Pro Ala Gln Gln
 100 105 110
 Ala Trp Ser Lys Thr Leu Leu Gly Met Leu His Asp Ile His Gln Glu
 115 120 125
 Ser Ala Ile Tyr Leu Met Val Arg Arg Leu Arg Asp
 130 135 140

<210> 9678

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 9678

Ser Thr Leu Arg Leu Ile Gly Phe Glu Trp Asn Asn Thr Met Thr Thr
 1 5 10 15
 Met Leu Glu Val Ala Lys Arg Ala Gly Val Ser Lys Ala Thr Val Ser
 20 25 30
 Arg Val Leu Ser Gly Asn Gly Tyr Val Ser Gln Glu Thr Lys Asp Arg
 35 40 45
 Val Phe Gln Ala Ile Glu Glu Ser Gly Tyr Arg Pro Asn Leu Leu Ala
 50 55 60
 Arg Asn Leu Ala Thr Lys Arg Thr Gln Thr Leu Gly Leu Val Val Thr
 65 70 75 80
 Asn Thr Leu Tyr His Gly Val Tyr Phe Ser Glu Leu Leu Phe Asn Ala
 85 90 95
 Ala Arg Met Thr Glu Glu Lys Gly Arg Gln Leu Ile Leu Ala Asp Gly
 100 105 110
 Lys His Ser Ala Glu Glu Glu Arg Glu Ala Ile Gln Tyr Leu Leu Asp
 115 120 125
 Met Arg Cys Asp Ala Val Ile Ile Tyr Pro Arg Phe Leu Ser Val Glu
 130 135 140
 Ala Leu Asp Glu Ile Ile Glu Lys Cys Glu Gln Pro Ile Met Val Leu
 145 150 155 160
 Asn Arg Arg Leu Arg Lys Asn Ser Ser His Ser Val Trp Ser Asp His
 165 170 175
 Lys Ala Ser Cys Gln Asp Ala Val Ser Gln Leu Ile Ala Lys Gly His
 180 185 190
 Arg Glu Ile Ala Phe Ile Thr Gly Ser Leu Asp Ser Pro Thr Gly Val
 195 200 205
 Glu Arg Leu Ser Gly Tyr Arg Glu Ala Leu Ala Gln His Gly Ile Ala
 210 215 220
 Val Arg Asp Ala Leu Ile Ala Glu Gly Lys Trp Ser Pro Ala Ser Gly
 225 230 235 240
 Ala Ala Ala Val Ser Gln Leu Leu Thr Arg Gly Glu Ala Phe Thr Ala
 245 250 255
 Leu Val Ala Ser Asn Asp Asp Met Ala Ile Gly Ala Ile Arg Gln Leu

```
<210> 9679
<211> 194
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9680
<211> 413
<212> PRT
<213> Enterobacter cloacae
```

<400> 9680																
Ala	Asn	Trp	Arg	Gln	Arg	Met	Pro	Ala	Asp	Gly	Arg	Ser	Leu	Arg	Cys	
1				5					10					15		
Ala	Ser	Ala	Ala	Ala	Ser	Phe	Thr	Thr	Ala	Cys	Cys	Ala	Arg	Ala	Phe	
			20					25					30			
Val	Ile	Thr	Phe	Leu	Ile	Ser	Arg	Phe	Phe	Phe	Leu	Arg	Ala	Cys	Pro	
		35					40					45				
Gln	Ala	Thr	Glu	Arg	Ser	Pro	Ser	Gly	Arg	Arg	Trp	Leu	Leu	Pro	Pro	
	50					55					60					
Asp	His	Val	His	Lys	Gly	Phe	Lys	Met	Leu	Arg	Leu	Leu	Arg	Asn	Glu	
65					70					75					80	

Pro Arg Ala Ala Cys Leu Leu Leu Ala Leu Gly Met Ala Asn Leu Leu
 85 90 95
 Ala Trp Gly Leu Ala Trp His Thr Phe Ser Asp Ser Thr Ala Leu Met
 100 105 110
 Ala Ala Ser Leu Leu Ala Trp Cys Tyr Gly Leu Arg His Ala Val Asp
 115 120 125
 Ala Asp His Ile Ala Ala Ile Asp Thr Val Thr Arg Lys Met Met Gln
 130 135 140
 Gln Gly Lys Arg Pro Ser Gly Val Gly Ala Trp Phe Ser Leu Gly His
 145 150 155 160
 Ser Thr Ile Val Val Leu Ala Ser Ile Ala Ile Ala Ala Thr Ala Thr
 165 170 175
 Ala Phe Gln Lys Asn Met Ala Trp Phe His Glu Thr Gly Ser Leu Ile
 180 185 190
 Gly Thr Ala Val Ser Ala Thr Phe Leu Leu Ala Met Ala Leu Val Asn
 195 200 205
 Met Val Ile Leu Arg Gly Val Trp Arg Ser Phe Gln Ala Leu Lys His
 210 215 220
 Gly Arg Pro Val Gln Gly Asp Ile Thr Leu Pro Ala Gln Gly Gly Val
 225 230 235
 Met Asn Trp Leu Phe Gly Lys Thr Phe Arg Leu Val Asn Lys Ser Trp
 245 250 255
 Gln Met Tyr Leu Val Gly Phe Leu Phe Gly Leu Gly Phe Asp Thr Ala
 260 265 270
 Thr Glu Ile Gly Val Leu Gly Ile Ser Ala Ala Ser Ala Ser Ser Gly
 275 280 285
 Met Ser Val Trp Ser Ile Met Ile Phe Pro Ala Leu Phe Ala Ser Gly
 290 295 300
 Met Ala Leu Val Asp Thr Leu Asp Asn Leu Leu Met Val Gly Ala Tyr
 305 310 315
 Gly Trp Ala Phe Asn Lys Pro Gln Arg Lys Leu Tyr Tyr Asn Met Thr
 325 330 335
 Ile Thr Gly Thr Ser Val Val Val Ala Leu Phe Ile Gly Gly Leu Glu
 340 345 350
 Ala Leu Gly Leu Leu Met Asp Lys Phe Ser Leu Ser Gly Gly Val Trp
 355 360 365
 Asp Leu Ile Gly Ala Val Asn Asp Asn Leu Gly Asp Ala Gly Phe Val
 370 375 380
 Val Val Gly Leu Phe Val Ala Cys Trp Leu Ile Ser Met Ala Asn Tyr
 385 390 395 400
 Arg Trp Arg Gly Tyr Asp Ala Leu Val Val Arg Ser
 405 410

<210> 9681

<211> 533

<212> PRT

<213> *Enterobacter cloacae*

<400> 9681

Cys Ser Gln Met Gly Ser His Phe Asp Tyr Leu Lys Asn Cys Gln Tyr
 1 5 10 15
 Asp Thr Met His Cys Gln Asn Asp Ser Glu Ala Glu Met Ser Phe Ser
 20 25 30
 Val Asp Val Leu Ala Lys Ile Ala Glu Leu Gln Thr Gly Ile Gly
 35 40 45
 His Gln Asp Arg Phe Gln Arg Leu Ile Ser Thr Leu Arg His Val Leu
 50 55 60
 Asp Cys Asp Ala Ser Ala Leu Leu Arg Tyr Glu Gly Arg Gln Phe Ile
 65 70 75 80
 Pro Leu Ala Ile Asp Gly Leu Ala Lys Asp Val Leu Gly Arg Arg Phe
 85 90 95

Thr Leu Glu Gly His Pro Arg Leu Glu Thr Ile Ala Arg Ala Gly Asp
 100 105 110
 Val Val Arg Phe Pro Ala Asp Ser Asp Leu Pro Asp Pro Tyr Asp Gly
 115 120 125
 Leu Ile Pro Gly Gln Glu Ser Leu Lys Val His Ala Cys Ile Gly Leu
 130 135 140
 Pro Leu Phe Ala Gly Gln Asn Leu Ile Gly Ala Leu Thr Leu Asp Gly
 145 150 155 160
 Met Ser Pro Asp Gln Phe Asp Thr Phe Ser Asp Glu Glu Leu Arg Leu
 165 170 175
 Ile Ala Ala Leu Ala Ala Gly Ala Leu Asn Asn Ala Leu Ile Glu
 180 185 190
 Gln Leu Glu Ser Gln Asn Ile Leu Pro Gly Ser Pro Thr Ala Phe Glu
 195 200 205
 Gln Val Ala His Thr Glu Met Ile Gly Leu Ser Pro Gly Met Ala Gln
 210 215 220
 Leu Lys Lys Glu Ile Glu Ile Val Ala Ala Ser Asp Leu Asn Val Leu
 225 230 235 240
 Ile Phe Gly Glu Thr Gly Thr Gly Lys Glu Leu Val Ala Lys Ala Ile
 245 250 255
 His Glu Ala Ser Pro Arg Ala Val Asn Pro Leu Val Tyr Leu Asn Cys
 260 265 270
 Ala Ala Leu Pro Glu Ser Val Ala Glu Ser Glu Leu Phe Gly His Val
 275 280 285
 Lys Gly Ala Phe Thr Gly Ala Ile Ser Asn Arg Ser Gly Lys Phe Glu
 290 295 300
 Met Ala Asp Asn Gly Thr Leu Phe Leu Asp Glu Ile Gly Glu Leu Ser
 305 310 315 320
 Leu Ser Leu Gln Ala Lys Leu Leu Arg Val Leu Gln Tyr Gly Asp Ile
 325 330 335
 Gln Arg Val Gly Asp Asp Arg Ser Leu Arg Val Asp Val Arg Val Leu
 340 345 350
 Ala Ala Thr Asn Arg Asp Leu Arg Glu Glu Val Leu Ala Gly Asn Phe
 355 360 365
 Arg Ala Asp Leu Phe His Arg Leu Ser Val Phe Pro Leu Thr Val Pro
 370 375 380
 Pro Leu Arg Glu Arg Gly Glu Asp Val Val Leu Leu Ala Gly Phe Phe
 385 390 395 400
 Cys Glu Gln Cys Arg Leu Lys Met Gly Leu Ser Arg Val Val Leu Ser
 405 410 415
 Pro Gly Ala Arg Thr His Leu Leu Ser Tyr Gly Trp Pro Gly Asn Val
 420 425 430
 Arg Glu Leu Glu His Ala Ile His Arg Ala Val Val Leu Ala Arg Ala
 435 440 445
 Thr Arg Ser Gly Asp Glu Val Val Ile His Ala Arg His Phe Ala Leu
 450 455 460
 His Glu Glu Thr Thr Pro Ser Val Lys Pro Val Ile Pro Glu Ser Val
 465 470 475 480
 Asn Glu Asn Leu Arg Glu Ala Thr Asn Ala Phe Gln Arg Gln Met Ile
 485 490 495
 Ala Arg Ala Leu Glu Gln Asn Asn Arg Ser Trp Ala Ala Cys Ala Arg
 500 505 510
 Ala Leu Glu Met Asp Val Ala Asn Leu His Arg Leu Ala Lys Arg Leu
 515 520 525
 Gly Leu Lys Gly
 530

<210> 9682

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 9682

Gly Ser Gly Ser Ala Gly Cys His Pro Arg Leu His Val Lys Ile Tyr
 1 5 10 15
 Phe Val Ile Lys Glu Arg His Met Ser Gln Val Ala Val Val Ile Gly
 20 25 30
 Gly Gly Gln Thr Leu Gly Glu Phe Leu Cys His Gly Leu Ala Ala Glu
 35 40 45
 Gly Tyr Arg Val Ala Val Val Asp Ile Gln Ser Glu Lys Ala Ala Arg
 50 55 60
 Val Ala Asp Ala Ile Asn Thr Glu Phe Gly Glu Gly Met Ala Tyr Gly
 65 70 75 80
 Phe Gly Ala Asp Ala Thr Ser Glu Gln Ser Val Met Ala Leu Ala Arg
 85 90 95
 Gly Val Asp Glu Ile Phe Gly Arg Ile Asp Leu Leu Val Tyr Ser Ala
 100 105 110
 Gly Ile Ala Lys Ala Ala Phe Ile Ser Asp Phe Glu Leu Gly Asp Phe
 115 120 125
 Asp Arg Ser Leu Gln Val Asn Leu Val Gly Tyr Phe Leu Cys Ala Arg
 130 135 140
 Glu Phe Ser Arg Leu Met Ile Arg Asp Gly Ile Gln Gly Arg Ile Ile
 145 150 155 160
 Gln Ile Asn Ser Lys Ser Gly Lys Val Gly Ser Lys His Asn Ser Gly
 165 170 175
 Tyr Ser Ala Ala Lys Phe Gly Gly Val Gly Leu Thr Gln Ser Leu Ala
 180 185 190
 Leu Asp Leu Ala Glu Tyr Gly Ile Thr Val His Ala Leu Met Leu Gly
 195 200 205
 Asn Leu Leu Lys Ser Pro Met Phe Gln Ser Leu Leu Pro Gln Tyr Ala
 210 215 220
 Ala Lys Leu Gly Ile Lys Ala Glu Glu Val Glu Gln Tyr Tyr Ile Asp
 225 230 235 240
 Lys Val Pro Leu Lys Arg Gly Cys Asp Tyr Gln Asp Val Leu Asn Met
 245 250 255
 Leu Leu Phe Tyr Ala Ser Pro Lys Ala Ser Tyr Cys Thr Gly Gln Ser
 260 265 270
 Ile Asn Val Thr Gly Gly Gln Val Met Phe
 275 280

<210> 9683

<211> 120

<212> PRT

<213> *Enterobacter cloacae*

<400> 9683

Gly Gly Val Met His Glu Ile Thr Leu Cys Gln Arg Ala Leu Glu Leu
 1 5 10 15
 Ile Glu Gln Gln Ala Val Gln Asn His Ala Lys Arg Val Thr Gly Val
 20 25 30
 Trp Leu Lys Val Gly Ala Phe Ser Cys Val Glu Thr Ser Ala Leu Thr
 35 40 45
 Phe Cys Phe Glu Leu Val Cys Arg Gly Thr Leu Ala Glu Gly Cys Ala
 50 55 60
 Leu His Ile Glu Glu Gln Gln Ala Glu Cys Trp Cys Glu Gln Cys Gln
 65 70 75 80
 Glu Tyr Val Thr Leu Ser Ser Lys Val Gln Arg Cys Pro Gln Cys
 85 90 95
 Gln Ser Ser Gly Leu Arg Ile Val Ala Asp Asp Gly Met Gln Ile Gln
 100 105 110
 Arg Leu Glu Ile Glu Lys Glu
 115 120

<210> 9684
 <211> 289
 <212> PRT
 <213> Enterobacter cloacae

<400> 9684

```

Ser Met Cys Ser Thr Cys Gly Cys Ala Glu Gly Asn Leu Tyr Ile Glu
1      5      10      15
Gly Asp Glu His Arg Pro His Ser Ala Phe Arg Ser Ala Pro Phe Ser
20
Pro Ala Pro Arg Pro Ala Ala Ala Leu Thr Gly Ile Thr Phe Ala Pro
35
Gln Arg Ser Asp Ala Gly Asp Leu His Tyr Gly Arg Gly Glu Ala Gly
50
Thr His Ala Pro Gly Ile Ser Gln Arg Gln Met Leu Glu Val Glu Ile
65      70      75      80
Asn Val Leu Asp Lys Asn Asn Gln Leu Ala Val Arg Asn Arg Ala Arg
85
Phe Ala Ala Arg Glu Gln Leu Val Leu Asn Leu Val Ser Ser Pro Gly
100
Ser Gly Lys Thr Thr Leu Leu Thr Glu Thr Leu Lys Arg Leu Asn Lys
115
Arg Val Ser Cys Ala Val Ile Glu Gly Asp Gln Gln Thr Val Asn Asp
130
Ala Ala Arg Ile Arg Glu Thr Gly Thr Pro Ala Ile Gln Val Asn Thr
145      150      155      160
Gly Lys Gly Cys His Leu Asp Ala Gln Met Ile Ala Asp Ala Ala Pro
165
Arg Leu Pro Leu Ala Asn Asn Gly Ile Leu Phe Ile Glu Asn Val Gly
180      185      190
Asn Leu Val Cys Pro Ala Ser Phe Asp Leu Gly Glu Arg His Lys Val
195      200      205
Ala Val Leu Ser Val Thr Glu Gly Glu Asp Lys Pro Leu Lys Tyr Pro
210      215      220
His Met Phe Ala Ala Ala Ser Leu Met Leu Leu Asn Lys Val Asp Leu
225      230      235      240
Leu Pro Tyr Leu Asn Phe Asp Val Asp Lys Cys Leu Ala Tyr Ala Arg
245      250      255
Glu Val Asn Pro Asp Ile Glu Ile Leu Leu Val Ser Ala Thr Arg Gly
260      265      270
Asp Gly Met Asp Ala Trp Leu Asn Trp Leu Glu Asn Glu Arg Cys Ala
275      280      285

```

<210> 9685
 <211> 703
 <212> PRT
 <213> Enterobacter cloacae

<400> 9685

```

Ile Ser Leu Phe Ala Ser Phe Tyr Trp Lys Ala Thr Met Pro Tyr Thr
1      5      10      15
Pro Met Ser Asp Leu Gly Gln Gln Gly Leu Phe Asp Ile Thr Arg Thr
20
Leu Leu Gln Gln Pro Asp Leu Gly Ala Leu Ser Asp Ala Leu Thr Arg
35
Leu Val Arg Gln Ser Ala Leu Ala Asp Ser Ala Ala Ile Val Leu Trp
50      55      60
His Ser Ala Thr His Arg Ala Ser Tyr Phe Ser Thr Arg Asp Asn Gly

```

65					70					75					80
Lys	Ile	Phe	Glu	Tyr	Glu	Asp	Glu	Thr	Phe	Leu	Ala	His	Gly	Pro	Val
				85					90					95	
Arg	Arg	Ile	Leu	Ser	Arg	Pro	Glu	Ala	Leu	His	Cys	Asn	Phe	Asp	Gln
			100					105					110		
Phe	Arg	Gln	Ala	Trp	Pro	Lys	Leu	Ala	Glu	Ser	Asn	Leu	Tyr	His	Pro
		115					120				125				
Phe	Gly	His	Tyr	Ser	Met	Leu	Pro	Leu	Ala	Val	Glu	Gly	Gln	Ile	Phe
	130					135				140					
Gly	Gly	Cys	Glu	Phe	Ile	Arg	Asp	Thr	Asp	Gln	Pro	Trp	Ser	Glu	Ala
145					150					155					160
Glu	Tyr	Glu	Arg	Leu	His	Thr	Phe	Thr	Gln	Ile	Val	Ala	Val	Val	Ala
				165					170						175
Glu	Gln	Ile	Gln	Ser	Arg	Val	Thr	Asn	Asn	Val	Asp	Tyr	Asp	Leu	Leu
			180					185					190		
Ser	Arg	Glu	Arg	Asp	Asn	Phe	Arg	Ile	Leu	Val	Ala	Ile	Thr	Asn	Ala
		195					200					205			
Val	Leu	Ser	Arg	Leu	Asp	Met	Asp	Glu	Leu	Val	Ser	Glu	Val	Ser	Lys
	210					215					220				
Glu	Ile	His	His	Tyr	Phe	Lys	Ile	Asp	Ala	Ile	Ser	Ile	Ala	Leu	Arg
225					230					235					240
Gly	Asn	Arg	Lys	Gly	Lys	Leu	Asn	Ile	Tyr	Ser	Thr	His	Tyr	Leu	Asp
				245					250					255	
Glu	Ala	Asn	Pro	Ala	His	Glu	Gln	Ser	Glu	Val	Asp	Glu	Ala	Gly	Thr
			260					265					270		
Leu	Ser	Glu	Arg	Val	Phe	Lys	Ser	Lys	Glu	Ile	Leu	Leu	Leu	Asn	Leu
		275					280					285			
Asn	Glu	Gln	Asp	Pro	Val	Ala	Pro	Tyr	Glu	Arg	Met	Leu	Phe	Asn	Thr
	290					295					300				
Trp	Gly	Asn	Lys	Ile	Gln	Thr	Leu	Cys	Leu	Leu	Pro	Leu	Met	Ser	Gly
305					310					315					320
Asn	Thr	Met	Leu	Gly	Val	Leu	Lys	Leu	Ala	Gln	Cys	Asp	Glu	Ala	Val
				325					330					335	
Phe	Thr	Thr	Ala	Asn	Leu	Lys	Leu	Leu	Arg	Gln	Ile	Ala	Glu	Arg	Ile
			340					345					350		
Ser	Ile	Ala	Leu	Asp	Asn	Ala	Leu	Ala	Tyr	Gln	Glu	Ile	His	Arg	Leu
		355					360					365			
Lys	Glu	Arg	Leu	Val	Asp	Glu	Asn	Leu	Ala	Leu	Thr	Glu	Gln	Leu	Asn
	370					375					380				
Asn	Val	Asp	Ser	Glu	Phe	Gly	Glu	Ile	Ile	Trp	Arg	Ser	Asp	Ala	Met
385					390				395						400
Tyr	Ser	Val	Leu	Lys	Gln	Val	Glu	Met	Val	Ala	Gln	Ser	Asp	Ser	Thr
				405					410					415	
Val	Leu	Ile	Leu	Gly	Glu	Thr	Gly	Thr	Gly	Lys	Glu	Leu	Ile	Ala	Arg
			420				425						430		
Ala	Ile	His	Asn	Leu	Ser	Asn	Arg	Asn	Ser	Arg	Arg	Met	Val	Lys	Met
		435				440						445			
Asn	Cys	Ala	Ala	Met	Pro	Ala	Gly	Leu	Leu	Glu	Ser	Asp	Leu	Phe	Gly
	450					455					460				
His	Glu	Arg	Gly	Ala	Phe	Thr	Gly	Ala	Ser	Ser	Gln	Arg	Leu	Gly	Arg
465					470				475						480
Phe	Glu	Leu	Ala	Asp	Lys	Ser	Ser	Leu	Phe	Leu	Asp	Glu	Val	Gly	Asp
				485					490					495	
Met	Pro	Leu	Glu	Leu	Gln	Pro	Lys	Leu	Leu	Arg	Val	Leu	Gln	Glu	Gln
			500					505					510		
Glu	Phe	Glu	Arg	Leu	Gly	Ser	Asn	Lys	Leu	Ile	Gln	Thr	Asp	Val	Arg
		515					520					525			
Leu	Ile	Ala	Ala	Thr	Asn	Arg	Asp	Leu	Lys	Lys	Met	Val	Ala	Asp	Arg
	530					535					540				
Glu	Phe	Arg	Ser	Asp	Leu	Tyr	Tyr	Arg	Leu	Asn	Val	Phe	Pro	Ile	Cys
545					550					555					560

Leu Pro Pro Leu Arg Glu Arg Pro Glu Asp Ile Pro Leu Leu Val Lys
 565 570 575
 Ala Phe Thr Ala Lys Ile Ala Arg Arg Met Gly Arg Asn Ile Asp Ser
 580 585 590
 Ile Pro Ala Glu Thr Leu Arg Thr Leu Ser Ala Met Glu Trp Pro Gly
 595 600 605
 Asn Val Arg Glu Leu Glu Asn Val Ile Glu Arg Ala Val Leu Leu Thr
 610 615 620
 Arg Gly Asn Val Leu Gln Leu Ser Leu Pro Glu Val Ser Leu Ala Glu
 625 630 635 640
 Thr Thr Val Ala Ala Thr Glu Val Ala Lys Asp Gly Glu Asp Glu Tyr
 645 650 655
 Gln Leu Ile Leu Arg Val Leu Arg Glu Thr Asn Gly Val Val Ala Gly
 660 665 670
 Pro Lys Gly Ala Ala Gln Arg Leu Glu Leu Lys Arg Thr Thr Leu Leu
 675 680 685
 Ser Arg Met Lys Arg Leu Gly Ile Asp Lys Glu Ser Leu Asn
 690 695 700

<210> 9686

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 9686

Arg Val Phe Thr Val Ile Leu Tyr Arg Gln Ser Glu His Thr Leu Pro
 1 5 10 15
 Thr Val Thr Gly Gly Ser Met Gln Gly Met Ala Ile Thr Lys Pro Tyr
 20 25 30
 Arg His Leu Lys Val Gly Tyr Phe Arg Lys Arg His Glu Asp Arg Lys
 35 40 45
 Thr Lys Ile Pro Thr Arg Tyr Ser Val His Ala Ala Leu Asn Leu Lys
 50 55 60
 Gly Asp Trp Leu Glu Lys Ala Gly Phe Leu Thr His Ser Gln Val Arg
 65 70 75 80
 Val Glu Val Gly Pro Gly Lys Ile Ile Ile Glu Leu Ile Lys Glu Pro
 85 90 95
 Asp Asp Gly His Pro Gly His Val Val Gln Arg Glu Gln
 100 105 110

<210> 9687

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 9687

Thr Glu Ser Pro Ser Phe Arg Ser His Ser Met Asn Arg Ile Arg Ile
 1 5 10 15
 Glu Lys Gly Thr Gly Gly Trp Gly Gly Pro Leu Glu Phe Asp Ala Thr
 20 25 30
 Glu Gly Lys Lys Ile Val Tyr Ile Thr Ala Gly Thr Arg Pro Ala Ile
 35 40 45
 Val Asp Lys Leu Arg Glu Leu Thr Gly Trp Glu Ala Val Asp Gly Phe
 50 55 60
 Lys Glu Gly Glu Pro Pro Glu Ala Glu Ile Gly Val Ala Val Ile Asp
 65 70 75 80
 Cys Gly Gly Thr Leu Arg Cys Gly Ile Tyr Pro Lys Arg Arg Ile Pro
 85 90 95
 Thr Val Asn Ile His Ser Thr Gly Lys Ser Gly Pro Leu Ala Gln Tyr
 100 105 110
 Ile Val Glu Asp Ile Tyr Val Ser Gly Val Lys Glu Asp Asn Ile Thr

```

      115              120              125
Leu Val Asn Gly Thr Ser Ala Pro Gln Lys Ala Ala Pro Arg Glu Tyr
130              135              140
Asp Thr Ser Lys Lys Ile Thr Glu Gln Ser Asp Gly Leu Leu Ala Lys
145              150              155
Val Gly Met Gly Met Gly Ser Ala Val Ala Val Leu Phe Gln Ser Gly
      165              170              175
Arg Asp Thr Ile Asp Thr Val Leu Lys Thr Ile Leu Pro Phe Met Ala
      180              185              190
Phe Val Ser Ala Leu Ile Gly Ile Ile Met Ala Ser Gly Leu Gly Asp
      195              200              205
Trp Ile Ala His Gly Leu Ala Pro Leu Ala Ser His Pro Leu Gly Leu
      210              215              220
Val Thr Leu Ala Leu Ile Cys Ser Phe Pro Leu Leu Ser Pro Phe Leu
      225              230              235
Gly Pro Gly Ala Val Ile Ala Gln Val Ile Gly Val Leu Ile Gly Val
      245              250              255
Gln Ile Gly Leu Gly Asn Ile Leu Pro His Leu Ala Leu Pro Ala Leu
      260              265              270
Phe Ala Ile Asn Ala Gln Ala Ala Cys Asp Phe Ile Pro Val Gly Leu
      275              280              285
Ser Leu Ala Glu Ala Arg Gln Glu Thr Val Arg Val Gly Val Pro Ser
      290              295              300
Val Leu Val Ser Arg Phe Leu Thr Gly Ala Pro Thr Val Leu Ile Ala
      305              310              315
Trp Phe Val Ser Gly Phe Ile Tyr Gln              320
      325              330

```

<210> 9688

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 9688

```

Glu Val Pro Ala Met Thr Val Ile Tyr Gln Thr Thr Ile Thr Arg Ile
1      5      10      15
Gly Gln Ser Ala Ala Asp Ala Leu Ser Asp Gln Met Leu Ile Thr Phe
      20      25      30
Arg Glu Gly Ala Pro Ala Asp Ile Glu Glu Phe Cys Phe Ile His Cys
      35      40      45
His Gly Glu Leu Asn Gly Glu Leu Lys Ala Gly Ser Gln Leu Glu Leu
      50      55      60
Gly Lys Ala Arg Tyr Ala Val Thr Ala Val Gly Asp Val Ala Glu Gln
      65      70      75      80
Asn Leu Arg Glu Leu Gly His Ile Thr Leu Arg Phe Asp Gly Gln Pro
      85      90      95
Gln Ala Glu Tyr Pro Gly Thr Val His Val Glu Gly Pro Val Pro Gln
      100      105      110
Ala Val Thr Pro Gly Cys Thr Leu Lys Phe Ile Ser
      115      120      125

```

<210> 9689

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 9689

```

Gln Gly Ala Asp Met Val Thr Ala Leu Ile Thr Val Ala Ala Leu Ala
1      5      10      15
Trp Ile Cys Gln Met Ala Phe Gly Gly Trp Gln Ile Tyr Gln Phe Asn
      20      25      30

```

Arg Ala Phe Asp Ala Leu Cys Gln Lys Gly Arg Val Gly Val Gly Arg
 35 40 45
 Ser Gly Gly Arg Phe Lys Pro Arg Val Val Val Ala Val Ala Leu Asp
 50 55 60
 Glu His Asn Arg Val Ser Asp Ser Leu Ile Met Arg Gly Val Thr Val
 65 70 75 80
 Phe Ala Arg Pro Thr Lys Ile Gln Ala Ile Asn Gly Ile Ser Leu His
 85 90 95
 Glu Leu Gln Pro Asp Val Ile Phe Pro His Asp Ser Leu Cys Gln Asn
 100 105 110
 Ala Leu Ser Leu Ala Leu Asn Leu Lys His Gly
 115 120

<210> 9690

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 9690

Phe Arg Cys Glu Ser Tyr Lys Leu Ala Glu Leu Ser Phe Arg Asn Val
 1 5 10 15
 Arg Asn Glu Ala Pro Met Lys Pro Arg Gln Arg Gln Ala Ala Ile Leu
 20 25 30
 Glu His Leu Gln Lys Gln Gly Lys Cys Ser Val Glu Asp Leu Ala His
 35 40 45
 Tyr Phe Asp Thr Thr Gly Thr Thr Ile Arg Lys Asp Leu Val Leu Leu
 50 55 60
 Glu Asn Ser Gly Ala Val Ile Arg Thr Tyr Gly Gly Val Val Leu Asn
 65 70 75 80
 Lys Asp Glu Ala Asp Pro Pro Ile Asp His Lys Thr Leu Ile Asn Thr
 85 90 95
 His Gln Lys Ala Leu Ile Ala Glu Ala Ala Val Lys Phe Ile His Asp
 100 105 110
 Gly Asp Ser Ile Ile Leu Asp Ala Gly Ser Thr Val Leu Gln Met Ile
 115 120 125
 Pro Leu Leu Ser Arg Phe Asn Asn Ile Thr Val Met Thr Asn Ser Leu
 130 135 140
 His Ile Val Asn Ala Leu Ser Glu Phe Asp Ser Glu Gln Thr Ile Leu
 145 150 155 160
 Met Pro Gly Gly Thr Phe Arg Lys Lys Ser Ala Ser Phe His Gly Gln
 165 170 175
 Leu Ala Glu Asn Ala Phe Asp His Phe Ser Phe Asp Lys Leu Phe Met
 180 185 190
 Gly Thr Asp Gly Ile Asp Leu Asn Ala Gly Val Thr Thr Phe Asn Glu
 195 200 205
 Val Phe Ser Val Ser Lys Ala Met Cys Asn Ala Ala Arg Glu Val Phe
 210 215 220
 Leu Met Ala Asp Ser Ser Lys Phe Gly Arg Lys Ser Pro Asn Ile Val
 225 230 235 240
 Cys Ser Leu Glu Ser Val Asp Lys Leu Ile Thr Asp Ala Gly Ile Asp
 245 250 255
 Pro Ala Phe Lys Lys Ala Leu Glu Ala Lys Gly Ile Asp Val Ile Val
 260 265 270
 Thr Gly Glu Lys Asn Glu
 275

<210> 9691

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 9691

Thr Gly Asn Gly Gly Lys Met Ser His Gly Ile Val Ile Ile Gly Ser
 1 5 10 15
 Gly Phe Ala Ala Arg Gln Leu Val Lys Asn Ile Arg Lys Gln Asp Ala
 20 25 30
 Asn Val Pro Leu Thr Val Ile Ala Ala Asp Ser Met Asp Glu Tyr Asn
 35 40 45
 Lys Pro Asp Leu Ser His Val Ile Ser Gln Asn Gln Arg Ala Asp Asp
 50 55 60
 Leu Thr Arg Gln Thr Ala Gly Glu Phe Ala Glu Gln Phe Asn Leu Arg
 65 70 75 80
 Leu Phe Pro Tyr Thr Trp Val Thr Asp Ile Asp Ala Asp Ala His Val
 85 90 95
 Val Asn Ala Lys Asp Lys Thr Trp His Tyr Asp Lys Leu Val Leu Ala
 100 105 110
 Thr Gly Ala Ser Ala Phe Val Pro Pro Val Glu Gly Arg Glu Leu Met
 115 120 125
 Val Thr Leu Asn Ser Gln Gln Glu Tyr Gln Ala Ser Glu Thr Leu Leu
 130 135 140
 Arg Asp Ala Thr Arg Val Met Ile Val Gly Gly Glu Ile Gly Thr
 145 150 155 160
 Glu Leu Ala Met Asp Phe Cys Arg Ala Gly Lys Ser Val Thr Leu Val
 165 170 175
 Asp His Ala Ala Ser Ile Leu Ser Ala Leu Met Pro Ala Glu Val Ser
 180 185 190
 Ser Arg Leu Gln His Arg Leu Thr Asp Met Gly Val His Leu Leu Leu
 195 200 205
 Lys Ser Gln Leu Gln Ser Leu Ser Lys Thr Glu Thr Gly Ile Cys Ala
 210 215 220
 Thr Leu Asp Arg Asn Arg Ser Val Glu Val Asp Val Val Ile Ala Ala
 225 230 235 240
 Thr Gly Leu Arg Pro Glu Thr Ala Leu Ala His Arg Ala Gly Ala Glu
 245 250 255
 Ile Asn Arg Gly Val Lys Val Asp Ser Tyr Leu Gln Thr Thr Gln Pro
 260 265 270
 Asp Ile Tyr Ala Leu Gly Asp Cys Ala Glu Ile Asn Gly Gln Val Leu
 275 280 285
 Pro Phe Leu Gln Pro Ile Gln Leu Ser Ala Met Phe Leu Ala Lys Asn
 290 295 300
 Leu Leu Gly Gly Asn Ala Pro Val Lys Leu Pro Ala Met Leu Val Lys
 305 310 315 320
 Val Lys Thr Pro Glu Leu Pro Leu His Leu Ala Gly Glu Thr Gln Arg
 325 330 335
 Gln Asp Leu Asp Trp Gln Ile Ala Leu Ser Pro Gln Gly Met Val Ala
 340 345 350
 Arg Gly Thr Asp Thr Ala Gly Gln Met Arg Ala Phe Val Val Ser Glu
 355 360 365
 Asp Arg Met Lys Glu Ala Phe Ala Leu Leu Lys Ser Leu Pro Ala
 370 375 380

<210> 9692

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 9692

His Pro Arg Arg Arg Ala Ala Ser Arg Ser Pro Pro Asp Thr Leu Pro
 1 5 10 15
 His Ala His Asp Asp Ala Ala Arg Ser Gln Arg Ala Ala Leu Ala Ser
 20 25 30
 Gly Pro Thr Val Gly Arg Asp Ile Pro Asp Gly His Arg Thr Pro His

```
<210> 9693
<211> 338
<212> PRT
<213> Enterobacter cloacae
```

<400> 9693																
Ser 1	Met	Asn	Thr	Val 5	Glu	Met	Ala	His	Gly 10	Ser	Gly	Gly	Gln	Ala 15	Met	
Gln	Gln	Leu	Ile 20	Asn	Arg	Leu	Phe	Met 25	Asp	Ala	Phe	Asp	Asn 30	Pro	Trp	
Leu	Ala	Glu	Gln 35	Glu	Asp	Gln	Ala 40	Arg	Ile	Ala	Leu	Ser 45	Thr	Leu	Thr	
Ala	His 50	Gly	Asp	Arg	Leu	Ala 55	Phe	Ser	Thr	Asp	Ser 60	Tyr	Val	Ile	Asp	
Pro 65	Leu	Phe	Phe	Pro	Gly 70	Gly	Asp	Ile	Gly	Lys 75	Leu	Ala	Val	Cys	Gly 80	
Thr	Ala	Asn	Asp	Val 85	Ala	Val	Ser	Gly	Ala 90	Ile	Pro	Arg	Tyr	Leu 95	Ser	
Cys	Gly	Phe	Ile 100	Leu	Glu	Glu	Gly	Leu 105	Pro	Met	Glu	Thr	Leu 110	Thr	Ala	
Val	Val	Asn	Ser 115	Met	Ala	His	Thr	Ala 120	Arg	Glu	Ala	Gly 125	Ile	Ala	Ile	
Val	Thr	Gly	Asp	Thr	Lys	Val	Val 135	Gln	Arg	Gly	Ala 140	Ala	Asp	Lys	Leu	
Phe 145	Ile	Asn	Thr	Ala	Gly 150	Met	Gly	Ala	Ile	Pro 155	Ala	Asp	Ile	His	Trp 160	
Gly	Ala	Gln	Gln 165	Leu	Cys	Ala	Gly	Asp	Val 170	Leu	Ile	Val	Ser	Gly 175	Thr	
Leu	Gly	Cys	His 180	Gly	Ala	Thr	Ile	Leu 185	Asn	Leu	Arg	Glu	Gly 190	Leu	Arg	
Leu	Asp	Gly 195	Glu	Leu	Arg	Ser	Asp 200	Cys	Ala	Val	Leu	Thr 205	Pro	Leu	Ile	
Gln	Thr 210	Leu	Arg	Asp	Met	Pro 215	Gly	Val	Lys	Ala	Leu 220	Arg	Asp	Ala	Thr	
Arg 225	Gly	Gly	Val	Asn	Ala 230	Val	Val	His	Glu	Phe 235	Ala	Ala	Ser	Ser	Gly 240	
Cys	Gly	Ile	Glu 245	Leu	Thr	Glu	Arg	Gly	Leu 250	Pro	Val	Lys	Gly	Ala 255	Val	
Arg	Gly	Leu	Cys 260	Glu	Leu	Leu	Gly	Leu 265	Asp	Pro	Leu	Asn	Phe 270	Ala	Asn	
Glu	Gly	Lys 275	Leu	Val	Ile	Gly	Val 280	Glu	Arg	Thr	Ala	Ala 285	Glu	Ala	Val	
Leu	Ala 290	Gln	Leu	Arg	Ala	His 295	Pro	Leu	Gly	Lys	Asp 300	Ala	Ala	Ile	Ile	
Gly 305	Asp	Val	Val	Glu	Arg 310	Lys	Gly	Val	Arg	Leu 315	Thr	Gly	Leu	Tyr	Gly 320	
Val	Lys	Arg	Thr	Leu 325	Asp	Leu	Pro	His	Ala 330	Glu	Pro	Leu	Pro	Arg 335	Ile	
Cys																

<210> 9694
 <211> 255
 <212> PRT
 <213> Enterobacter cloacae

<400> 9694

Val	Met	Ser	Ile	Cys	Ala	Glu	Lys	Ile	Thr	Trp	Lys	Val	Gly	Lys	Lys
1				5					10					15	
Ile	Ile	Val	Asn	His	Val	Ser	Leu	Lys	Val	Ser	Arg	Gly	Glu	Thr	Val
			20					25					30		
Gly	Leu	Leu	Gly	Pro	Asn	Gly	Cys	Gly	Lys	Ser	Ser	Leu	Leu	Arg	Ile
		35					40					45			
Leu	Ala	Gly	Leu	Arg	Arg	Pro	Asp	Ala	Gly	Cys	Val	Thr	Leu	Asp	Gly
	50					55					60				
Gln	Asp	Ile	Ala	Arg	Ile	Ala	Lys	Lys	Gln	Leu	Ala	Arg	Arg	Val	Ala
65					70					75					80
Phe	Val	Glu	Gln	His	Gly	Met	Thr	Asp	Ala	Asn	Met	Arg	Val	Arg	Asp
				85					90					95	
Val	Val	Lys	Leu	Gly	Arg	Ile	Pro	His	His	Ser	Pro	Phe	Ser	Asn	Trp
			100					105					110		
Ser	Ala	Gln	Asp	Asp	Glu	Thr	Val	Thr	Ala	Ala	Leu	Gln	Arg	Val	Asp
		115					120					125			
Met	Leu	Asp	Arg	Ser	Glu	Gln	Gly	Trp	Leu	Ser	Leu	Ser	Gly	Gly	Glu
	130					135						140			
Arg	Gln	Arg	Val	His	Ile	Ala	Arg	Ala	Leu	Ala	Gln	Thr	Pro	Thr	Glu
145					150					155					160
Ile	Leu	Leu	Asp	Glu	Pro	Thr	Asn	His	Leu	Asp	Ile	His	His	Gln	Met
				165					170					175	
Gln	Leu	Met	Gln	Leu	Ile	Ser	Glu	Leu	Pro	Val	Thr	Ser	Ile	Val	Ala
			180					185					190		
Ile	His	Asp	Leu	Asn	His	Ala	Ser	Met	Phe	Cys	Asp	Ser	Leu	Ile	Val
	195						200					205			
Met	Gln	Gln	Gly	Gln	Ile	Val	Ala	Thr	Gly	Thr	Pro	Gln	Glu	Ile	Leu
	210				215						220				
Ser	Glu	Glu	Leu	Leu	Trp	Asp	Val	Phe	Arg	Val	Lys	Thr	Arg	Ile	Glu
225					230					235					240
Ile	Ser	Pro	Tyr	His	Gly	Lys	Lys	His	Ile	His	Phe	Ile	Val		
				245					250					255	

<210> 9695
 <211> 410
 <212> PRT
 <213> Enterobacter cloacae

<400> 9695

Val	Lys	Thr	Met	Pro	Leu	Arg	Thr	Ala	Thr	Thr	Leu	Trp	Pro	Pro	Val
1				5					10					15	
Leu	Leu	Gly	Ser	Gln	Phe	Val	Phe	Asn	Ile	Gly	Phe	Tyr	Ala	Val	Val
			20					25					30		
Pro	Phe	Leu	Ala	Ile	Phe	Leu	Arg	Asp	Asp	Met	Leu	Leu	Ser	Gly	Gly
		35					40					45			
Leu	Ile	Gly	Leu	Val	Leu	Gly	Leu	Arg	Thr	Phe	Ser	Gln	Gln	Gly	Met
	50					55					60				
Phe	Ile	Val	Gly	Gly	Ala	Leu	Ser	Asp	Arg	Phe	Gly	Ala	Lys	Ser	Val
65					70					75					80
Ile	Leu	Ser	Gly	Cys	Ile	Val	Arg	Val	Val	Gly	Tyr	Leu	Leu	Leu	Ala
				85					90					95	
Phe	Gly	Gln	Ser	Leu	Trp	Pro	Val	Ile	Leu	Gly	Ala	Cys	Leu	Thr	Gly
			100					105					110		


```

Val Gly Gly Ala Leu Phe Ser Pro Ser Ile Glu Ala Leu Leu Ala Lys
      115      120      125
Ala Gly Thr Gln Ser Glu Ala Lys Gly Lys Arg Ser Arg Ala Glu Trp
      130      135      140
Phe Ala Leu Phe Ala Val Cys Gly Glu Leu Gly Ala Val Leu Gly Pro
145      150      155      160
Val Met Gly Ala Leu Thr Gly Leu Gly Phe Arg Gln Val Ala Leu
      165      170      175
Ala Gly Ala Gly Ile Phe Ile Val Ala Leu Val Val Leu Phe Phe Cys
      180      185      190
Leu Pro Ala Ala His Arg Ser Thr Lys Pro Leu Lys Ile Leu Pro Trp
      195      200      205
Trp Thr Thr Phe Arg Gln Pro Arg Phe Val Ala Phe Ile Ile Ala Tyr
      210      215      220
Ser Ser Trp Leu Leu Ser Tyr Asn Gln Leu Tyr Leu Ala Leu Pro Val
225      230      235      240
Glu Ile Gln Arg Ala Gly Gly Asn Glu Lys Asp Leu Gly Pro Leu Phe
      245      250      255
Met Leu Ala Ser Val Leu Ile Ile Val Leu Gln Leu Pro Leu Ala Arg
      260      265      270
Phe Ala Arg Asn Val Gly Ala Val Arg Ile Leu Pro Val Gly Phe Leu
      275      280      285
Leu Leu Ser Ala Ser Phe Ala Ser Val Ala Leu Phe Ala Ala Thr Glu
290      295      300
Pro Pro Glu Gly Trp Leu Arg Leu Leu Pro Ser Ala Ser Leu Val Thr
305      310      315      320
Leu Leu Thr Leu Gly Gln Met Leu Leu Val Pro Ser Ala Lys Asp Leu
      325      330      335
Ile Pro Arg Phe Ala Glu Glu Ser Thr Leu Gly Ala His Tyr Gly Ala
      340      345      350
Leu Ser Thr Ala Gly Gly Ile Ala Val Leu Val Gly Asn Leu Gly Leu
      355      360      365
Gly Ser Leu Leu Asp Lys Ala Leu Val Pro Ser Thr Glu Ala Ile Tyr
370      375      380
Pro Trp Leu Leu Leu Ala Val Phe Pro Leu Cys Ser Ala Val Ala Leu
385      390      395      400
Ser Val Ile Cys Arg Pro Leu Arg Arg
      405      410

```

<210> 9696

<211> 861

<212> PRT

<213> Enterobacter cloacae

<400> 9696

```

Glu His Gly His Gln Asp Phe Met Ser Thr Leu Glu Asn Phe Asp Ala
1      5      10      15
His Thr Pro Met Met Gln Gln Tyr Leu Lys Leu Lys Ala Gln His Pro
      20      25      30
Glu Ile Leu Leu Phe Tyr Arg Met Gly Asp Phe Tyr Glu Leu Phe Tyr
      35      40      45
Asp Asp Ala Lys Arg Ala Ser Gln Leu Leu Asp Ile Ser Leu Thr Lys
      50      55      60
Arg Gly Ala Ser Ala Gly Glu Pro Ile Pro Met Ala Gly Ile Pro His
65      70      75      80
His Ala Val Glu Asn Tyr Leu Ala Lys Leu Val Asn Gln Gly Glu Ser
      85      90      95
Val Ala Ile Cys Glu Gln Ile Gly Asp Pro Ala Thr Ser Lys Gly Pro
      100      105      110
Val Glu Arg Lys Val Val Arg Ile Val Thr Pro Gly Thr Ile Ser Asp
      115      120      125

```

Glu Ala Leu Leu Gln Glu Arg Gln Asp Asn Leu Leu Ala Ala Ile Trp
 130 135 140
 Gln Asp Gly Lys Gly Phe Gly Tyr Ala Thr Leu Asp Ile Ser Ser Gly
 145 150 155 160
 Arg Phe Arg Leu Ser Glu Pro Ala Asp Arg Glu Thr Met Ala Ala Glu
 165 170 175
 Leu Gln Arg Thr Asn Pro Ala Glu Leu Leu Tyr Ala Glu Asp Phe Ala
 180 185 190
 Glu Met Ala Leu Ile Glu Gly Arg Arg Gly Leu Arg Arg Arg Pro Leu
 195 200 205
 Trp Glu Phe Glu Ile Asp Thr Ala Arg Gln Gln Leu Asn Leu Gln Phe
 210 215 220
 Gly Thr Arg Asp Leu Ile Gly Phe Gly Val Glu Asn Ala Pro Arg Gly
 225 230 235 240
 Leu Cys Ala Ala Gly Cys Leu Leu Gln Tyr Val Lys Asp Thr Gln Arg
 245 250 255
 Thr Ala Leu Pro His Ile Arg Ser Ile Thr Met Glu Arg Gln Gln Asp
 260 265 270
 Ser Ile Ile Met Asp Ala Ala Thr Arg Arg Asn Leu Glu Ile Thr Gln
 275 280 285
 Asn Leu Ala Gly Gly Met Glu Asn Thr Leu Ala Ser Val Leu Asp Ser
 290 295 300
 Thr Val Thr Pro Met Gly Ser Arg Met Leu Lys Arg Trp Leu His Met
 305 310 315 320
 Pro Ile Arg Asn Thr Glu Thr Leu Thr Gly Arg Gln Gln Thr Ile Ala
 325 330 335
 Ala Leu Gln Asp Arg Tyr Thr Glu Leu Gln Pro Val Leu Arg Gln Val
 340 345 350
 Gly Asp Leu Glu Arg Ile Leu Ala Arg Leu Ala Leu Arg Thr Ala Arg
 355 360 365
 Pro Arg Asp Leu Ala Arg Met Arg His Ala Phe Gln Gln Leu Pro Glu
 370 375 380
 Leu Arg Ala Gln Leu Gly Glu Ile Asp Ser Ala Pro Val Gln Lys Leu
 385 390 395 400
 Arg Glu Thr Met Gly Glu Phe Thr Glu Leu Arg Glu Leu Leu Glu Arg
 405 410 415
 Ala Ile Ile Asp Ala Pro Pro Val Leu Val Arg Asp Gly Gly Val Ile
 420 425 430
 Ala Pro Gly Tyr Asn Glu Glu Leu Asp Glu Trp Arg Ala Leu Ala Asp
 435 440 445
 Gly Ala Thr Asp Tyr Leu Asp Lys Leu Glu Ile Arg Glu Arg Glu Arg
 450 455 460
 Leu Gly Leu Asp Thr Leu Lys Val Gly Tyr Asn Ala Val His Gly Tyr
 465 470 475 480
 Tyr Ile Gln Ile Ser Arg Gly Gln Ser His Leu Ala Pro Ile His Tyr
 485 490 495
 Val Arg Arg Gln Thr Leu Lys Asn Ala Glu Arg Tyr Ile Ile Pro Glu
 500 505 510
 Leu Lys Glu Tyr Glu Asp Lys Val Leu Thr Ser Lys Gly Lys Ala Leu
 515 520 525
 Ala Leu Glu Lys Gln Leu Tyr Asp Glu Leu Phe Asp Ile Leu Met Pro
 530 535 540
 His Leu Ala Asp Leu Gln Leu Ser Ala Ala Ala Leu Ala Glu Leu Asp
 545 550 555 560
 Val Leu Val Asn Leu Ala Glu Arg Ala Asp Thr Leu Asn Tyr Thr Cys
 565 570 575
 Pro Thr Phe Thr Asp Lys Pro Gly Ile Arg Ile Thr Glu Gly Arg His
 580 585 590
 Pro Val Val Glu Gln Val Leu Asn Glu Pro Phe Ile Ala Asn Pro Leu
 595 600 605
 Asn Leu Ser Pro Gln Arg Arg Met Leu Ile Ile Thr Gly Pro Asn Met

```
<210> 9697
<211> 88
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

```
<210> 9698
<211> 198
<212> PRT
<213> Enterobacter cloacae
```

<400> 9698
 Thr Lys Thr Asn Ala Leu Gln Glu Arg Arg Met Ile Glu Thr Ile Thr
 1 5 10 15
 His Gly Ala Glu Trp Phe Ile Gly Leu Phe Gln Lys Gly Gly Glu Val
 20 25 30

```
<210> 9699
<211> 326
<212> PRT
<213> Enterobacter cloacae
```

Pro 1	Glu	Arg	Lys 5	Met	Ser	Asp	Phe	Leu	Leu 10	Asn	Ala	Gly	Arg	Gln 15	Thr
Leu	Leu	Leu	Glu 20	Leu	Gln	Glu	Ala	Ser 25	Arg	Leu	Pro	Glu	Arg 30	Leu	Gly
Glu	Asp	Phe 35	Val	Arg	Ala	Ala	Asn 40	Thr	Ile	Ile	His	Cys 45	Glu	Gly	Lys
Val 50	Ile	Val	Ala	Gly	Ile	Gly 55	Lys	Ser	Gly	His	Ile 60	Gly	Lys	Lys	Ile
Ala 65	Ala	Thr	Leu	Ala	Ser 70	Thr	Gly	Thr	Pro	Ala 75	Phe	Phe	Val	His	Pro 80
Ala	Glu	Ala	Leu	His 85	Gly	Asp	Leu	Gly	Met 90	Ile	Glu	Ser	Arg	Asp 95	Val
Met	Leu	Phe 100	Ile	Ser	Tyr	Ser	Gly	Ser 105	Ala	Lys	Glu	Leu	Asp 110	Leu	Ile
Ile	Pro	Arg 115	Leu	Gln	Glu	Lys	Ser	Val 120	Ala	Leu	Leu	Ala 125	Met	Thr	Gly
Lys 130	Ser	Arg	Ser	Pro	Leu	Ala 135	Leu	Ala	Ala	Lys	Ala 140	Thr	Leu	Asp	Ile
Ser 145	Val	Glu	Arg	Glu	Ala 150	Cys	Pro	Met	His 155	Leu	Ala	Pro	Thr	Ser	Ser 160
Thr	Val	Asn	Thr 165	Leu	Met	Met	Gly	Asp	Ala 170	Leu	Ala	Met	Ala	Val 175	Met
Gln	Ala	Arg 180	Gly	Phe	Asn	Glu	Glu	Asp 185	Phe	Ala	Arg	Ser	His 190	Pro	Ala
Gly	Ala	Leu 195	Gly	Ala	Arg	Leu	Leu 200	Asn	Lys	Val	His	His 205	Leu	Met	Arg
Thr 210	Asp	Asp	Ala	Ile	Pro	Gln 215	Val	Lys	Leu	Asp	Thr 220	Ser	Val	Met	Asp
Ala 225	Met	Leu	Glu	Leu	Ser 230	Arg	Thr	Gly	Leu	Gly 235	Leu	Val	Ala	Val	Cys 240
Asp	Asn	Asp	Arg 245	Gln	Val	Lys	Gly	Val	Phe 250	Thr	Asp	Gly	Asp	Leu 255	Arg

Ser Gly Gly Ala Val Asp Arg Leu Ser Thr Arg Leu Gln Asp Ala Gly
 355 360 365
 Phe Glu Met Ser Leu Ser Leu Lys Ala Lys Trp Arg Pro Asp Leu Asp
 370 375 380
 Ala Leu Glu Ile Cys Arg Gln His Gly Arg Asp Ile Ala Arg Gln Trp
 385 390 395 400
 Ala Leu Ala Pro Leu Pro Glu Thr Ala Pro Ala Ala Val Ala Pro
 405 410 415
 Glu Ala Val Ala Glu Ala Ala Pro Ala Ala Ala Asp Leu Gly Pro Cys
 420 425 430
 Met Gln Cys Ser Val Cys Gln Trp Ile Tyr Asp Pro Glu Leu Gly Glu
 435 440 445
 Pro Leu Gln Asp Val Ala Pro Gly Thr Pro Trp Ser Glu Val Pro Asp
 450 455 460
 Asn Phe Leu Cys Pro Glu Cys Ser Leu Gly Lys Asp Val Phe Asp Glu
 465 470 475 480
 Leu Ala Thr Glu Ala Lys
 485

<210> 9701

<211> 499

<212> PRT

<213> Enterobacter cloacae

<400> 9701

Asn Arg Phe Pro Thr Leu Leu Thr Thr Ile Thr Gly Ser His Pro Met
 1 5 10 15
 Ala Lys Asn Tyr Ala Ala Leu Ala Asn Asp Val Val Ser Ala Leu Gly
 20 25 30
 Gly Lys Glu Asn Ile Val Ala Val Thr His Cys Met Thr Arg Leu Arg
 35 40 45
 Phe Val Leu Lys Asp Glu Ser Leu Thr Asp Thr Ala Arg Leu Lys Ser
 50 55 60
 Ile Ser Gly Val Leu Gly Val Val Arg Asn Asp Asn Gln Cys Gln Val
 65 70 75 80
 Ile Ile Gly Asn Thr Val Ser Gln Ala Tyr Arg Glu Val Val Ser Leu
 85 90 95
 Leu Pro Ala Asn Leu Gln Pro Ala Val Ala Glu Gly Pro Gln Lys Leu
 100 105 110
 Thr Leu Arg Arg Ile Gly Ala Gly Ile Leu Asp Ala Leu Ile Gly Thr
 115 120 125
 Met Ser Pro Leu Ile Pro Ala Ile Ile Gly Glu Ser Met Val Lys Leu
 130 135 140
 Leu Ala Met Ile Leu Glu Met Thr Gly Val Leu Gly Lys Gly Asp Pro
 145 150 155 160
 Thr Leu Thr Ile Leu Thr Val Ile Gly Asp Gly Ala Phe Phe Phe Leu
 165 170 175
 Pro Leu Met Val Ala Ala Ser Ala Ala Val Lys Phe Lys Thr Asn Met
 180 185 190
 Ser Leu Ala Ile Ala Ile Ala Gly Val Leu Val His Pro Ser Phe Ile
 195 200 205
 Glu Leu Met Ala Lys Ala Ala Gln Gly Glu His Val Glu Phe Ala Phe
 210 215 220
 Ile Pro Val Thr Ala Val Lys Tyr Thr Tyr Thr Val Ile Pro Ala Leu
 225 230 235 240
 Val Met Thr Trp Cys Leu Ser Tyr Ile Glu Arg Trp Val Asp Arg Ile
 245 250 255
 Thr Pro Ala Val Thr Lys Asn Phe Leu Lys Pro Met Leu Ile Val Leu
 260 265 270
 Ile Ala Ala Pro Leu Ala Ile Val Leu Ile Gly Pro Leu Gly Ile Trp
 275 280 285

Ile Gly Ser Ala Ile Ser Ala Leu Val Tyr Thr Ile His Gly Tyr Leu
 290 295 300
 Gly Trp Leu Ser Val Ala Ile Met Gly Ala Leu Trp Pro Leu Leu Val
 305 310 315 320
 Met Thr Gly Met His Arg Val Phe Thr Pro Thr Ile Ile Gln Thr Ile
 325 330 335
 Ala Glu Thr Gly Lys Glu Gly Met Val Met Pro Ser Glu Ile Gly Ala
 340 345 350
 Asn Leu Ser Leu Gly Gly Ser Ser Leu Ala Val Ala Trp Lys Thr Lys
 355 360 365
 Asn Pro Glu Leu Arg Gln Thr Ala Leu Ala Ala Ala Ser Ala Ile
 370 375 380
 Met Ala Gly Ile Ser Glu Pro Ala Leu Tyr Gly Val Ala Val Arg Leu
 385 390 395 400
 Lys Arg Pro Leu Ile Ala Ser Leu Ile Ser Gly Phe Ile Cys Gly Ala
 405 410 415
 Val Ala Gly Met Ala Gly Leu Ala Ser His Ser Met Ala Ala Pro Gly
 420 425 430
 Leu Phe Thr Ser Val Gln Phe Phe Asp Pro Ala Asn Pro Met Thr Ile
 435 440 445
 Val Trp Val Phe Gly Val Met Gly Leu Ala Val Val Leu Ser Phe Val
 450 455 460
 Leu Thr Leu Leu Leu Gly Phe Glu Asp Ile Pro Val Glu Asp Glu Ala
 465 470 475 480
 Glu Lys Ala Arg Ala Leu Gln Thr Ala Pro Val Gln Asn Lys Ala Ala
 485 490 495
 Glu Ala

<210> 9702

<211> 481

<212> PRT

<213> Enterobacter cloacae

<400> 9702

Thr Glu Ser Glu Val Arg Met Ser Val Phe Pro Gln Gly Phe Leu Trp
 1 5 10 15
 Gly Gly Ala Leu Ala Ala Asn Gln Ser Glu Gly Ala Tyr Arg Glu Gly
 20 25 30
 Gly Lys Gly Leu Thr Thr Val Asp Met Ile Pro His Gly Ala Asn Arg
 35 40 45
 Leu Ala Val Lys Val Gly Lys Glu Lys Arg Phe Ser Leu Arg Asp Asp
 50 55 60
 Glu Phe Tyr Pro Ser His Glu Ala Ile Asp Phe Tyr His Arg Tyr Lys
 65 70 75 80
 Glu Asp Ile Ala Leu Met Ala Glu Met Gly Phe Thr Val Phe Arg Thr
 85 90 95
 Ser Ile Ala Trp Ser Arg Leu Tyr Pro Asn Gly Asp Glu Pro Leu Pro
 100 105 110
 Asn Gln Glu Gly Ile Ala Phe Tyr Arg Ala Val Phe Glu Glu Cys Lys
 115 120 125
 Lys Tyr Asn Ile Glu Pro Leu Val Thr Leu Cys His Phe Asp Val Pro
 130 135 140
 Met His Leu Val Thr Glu Tyr Gly Ser Trp Arg Asn Arg Lys Met Val
 145 150 155 160
 Asp Phe Phe Ala Arg Tyr Ala Arg Thr Cys Phe Glu Ala Phe Asn Gly
 165 170 175
 Leu Val Lys Tyr Trp Leu Thr Phe Asn Glu Ile Asn Ile Met Leu His
 180 185 190
 Ser Pro Phe Ser Gly Ala Gly Leu Val Phe Glu Glu Gly Glu Asn Glu
 195 200 205

Asp Gln Val Lys Tyr Gln Ala Ala His His Glu Leu Val Ala Ser Ala
 210 215 220
 Leu Ala Thr Lys Ile Ala His Glu Val Asn Pro Glu Asn Gln Val Gly
 225 230 235 240
 Cys Met Leu Ala Gly Gly Asn Phe Tyr Pro Tyr Ser Cys Lys Pro Glu
 245 250 255
 Asp Val Trp Met Ala Leu Glu Lys Asp Arg Glu Asn Leu Phe Phe Ile
 260 265 270
 Asp Val Gln Ala Arg Gly Ser Tyr Pro Ala Tyr Ser Ala Arg Val Phe
 275 280 285
 Arg Glu Lys Gly Val Val Ile Val Lys Asp Pro Gly Asp Asp Glu Leu
 290 295 300
 Leu Lys Asn Thr Val Asp Phe Val Ser Phe Ser Tyr Tyr Ala Ser Arg
 305 310 315 320
 Cys Ala Ser Ala Asp Met Asn Ala Gly Asn Thr Ser Ala Ala Asn Ile
 325 330 335
 Val Lys Ser Leu Arg Asn Pro His Ile Gln Val Ser Glu Trp Gly Trp
 340 345 350
 Gly Ile Asp Pro Leu Gly Leu Arg Ile Thr Met Asn Met Met Tyr Asp
 355 360 365
 Arg Tyr Gln Lys Pro Leu Phe Leu Val Glu Asn Gly Leu Gly Ala Lys
 370 375 380
 Asp Val Val Asp Glu Asn Gly Glu Ile Asn Asp Asp Tyr Arg Ile Ser
 385 390 395 400
 Tyr Leu Arg Glu His Ile Arg Ala Met Gly Asp Ala Ile Glu Asp Gly
 405 410 415
 Val Pro Leu Leu Gly Tyr Thr Thr Trp Gly Cys Ile Asp Leu Val Ser
 420 425 430
 Ala Ser Thr Gly Glu Met Ser Lys Arg Tyr Gly Phe Val Tyr Val Asp
 435 440 445
 Arg Asp Asp Ala Gly Asn Gly Thr Leu Glu Arg Lys Arg Lys Lys Ser
 450 455 460
 Phe Gly Trp Tyr Lys Lys Val Ile Ala Ser Asn Gly Gly Asp Leu Glu
 465 470 475 480

<210> 9703

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 9703

Ser Ser Pro Gln Ser Ala Thr Pro Arg Pro Thr Thr Ala Ala Ala Asp
 1 5 10 15
 Arg Pro Ser Gly Leu Ser Ser Gly Cys Arg Lys Asp Arg Pro Ser Ser
 20 25 30
 Pro Arg Trp Arg Thr Ala Gln Arg Pro Gly Leu Arg His Trp His Ala
 35 40 45
 Pro Ala Ala Pro Ser Arg Ala Ala Gly Leu Ser Arg Pro Ala Gly Gln
 50 55 60
 Asn Arg Leu Arg Pro Thr Ala Arg Arg Arg Cys Pro Ala Ala Gly Arg
 65 70 75 80

<210> 9704

<211> 114

<212> PRT

<213> Enterobacter cloacae

[illegible]

<211> 375

<213> Enterobacter cloacae

His 1	Met	Arg	Tyr	Val 5	Asp	Glu	Tyr	Arg	Ala 10	Pro	Glu	Gln	Val	Leu 15	Gln
Leu	Ile	Asp	Arg 20	Leu	Lys	Ser	Arg	Ala 25	Ser	Leu	Leu	Asp	Tyr 30	Thr	Lys
Glu	Lys	Pro 35	Leu	Arg	Ile	Met	Glu 40	Val	Cys	Gly	Gly	His 45	Thr	His	Ala
Ile	Phe	Lys	Phe	Gly	Leu	Asp 55	Gln	Leu	Leu	Pro	Glu	Asn	Ile	Glu	Phe
Ile 65	His	Gly	Pro	Gly	Cys 70	Pro	Val	Cys	Val	Leu	Pro	Met	Gly	Arg	Ile 80
Asp	Ser	Cys	Leu	Asp 85	Ile	Ala	Ser	Arg	Pro 90	Gly	Val	Ile	Phe	Cys 95	Thr
Phe	Gly	Asp	Ala 100	Met	Arg	Val	Pro	Gly 105	Lys	Asn	Gly	Ser	Leu 110	Leu	Gln
Ala	Lys	Ala 115	Arg	Gly	Ala	Asp	Val 120	Arg	Ile	Val	Tyr	Ser	Pro 125	Met	Asp
Ala	Leu	Thr	Leu	Ala	Met	Ala 135	Asn	Pro	Glu	Arg	Lys	Val	Val	Phe	Phe
Gly 145	Leu	Gly	Phe	Glu	Thr 150	Thr	Met	Pro	Ala	Thr	Ala	Ile	Thr	Leu	Gln 160
Gln	Ala	Lys	Ala 165	Arg	Asn	Val	Thr	Asn	Phe 170	Tyr	Phe	Phe	Cys	Gln 175	His
Ile	Thr	Leu	Ile 180	Pro	Thr	Leu	Arg	Ser 185	Leu	Leu	Glu	Ala	Pro 190	Asp	Asn
Gly	Ile	Asp 195	Ala	Phe	Leu	Ala	Pro 200	Gly	His	Val	Ser	Met 205	Val	Ile	Gly
Thr	Glu	Ala 210	Tyr	Gly	Phe	Ile 215	Ala	Glu	Gln	Tyr	Asn	Arg 220	Pro	Leu	Val
Val 225	Ala	Gly	Phe	Glu	Pro 230	Leu	Asp	Leu	Leu	Gln	Gly	Val	Thr	Met	Leu 240
Val	Glu	Gln	Lys 245	Ile	Ala	Ala	Leu	Ser	Ala 250	Val	Glu	Asn	Gln	Tyr 255	Arg
Arg	Val	Val	Pro 260	Asp	Ala	Gly	Asn	Arg 265	Arg	Ala	Gln	Glu	Ala	Ile	Ala
Asp	Val	Phe 275	Ser	Val	Glu	Gly	Asp 280	Ser	Glu	Trp	Arg	Gly 285	Leu	Gly	Leu
Ile	Ala	Glu	Ser	Gly	Val	His	Leu	Thr	Pro	Ala	Tyr	Arg	Ala	Phe	Asp

290 295 300
 Ala Glu Ala His Phe Arg Pro Gln Pro Gln Gln Val Cys Asp Asp Pro
 305 310 315 320
 Arg Ala Arg Cys Gly Asp Val Leu Thr Gly Lys Cys Lys Pro His His
 325 330 335
 Cys Pro Leu Phe Gly Asn Ala Cys Asn Pro Gln Thr Ala Phe Gly Ala
 340 345 350
 Leu Met Val Ser Ser Glu Gly Ala Cys Ala Ala Trp Tyr His Tyr Arg
 355 360 365
 Asn Gln Glu Cys Glu Ala
 370 375

<210> 9706

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 9706

Arg Leu Met Lys Lys Val Leu Cys Ala Leu Gly Leu Ala Val Ala Ser
 1 5 10 15
 Met Ser Thr Ala Leu Ala Thr Thr Tyr Pro Leu Thr Ile Glu Asn Cys
 20 25 30
 Gly Tyr Lys Glu Thr Phe Thr Lys Ala Pro Glu Arg Val Ala Leu
 35 40 45
 Gly Gln Asn Thr Val Glu Ile Leu Leu Leu Gly Leu Glu Asp Lys
 50 55 60
 Val Lys Ala Ser Ala Phe Trp Pro Thr Lys Val Leu Pro Gln Leu Ala
 65 70 75 80
 Glu Gln Asn Ala Lys Ile Lys Thr Leu Thr Val Glu Ile Pro Thr Leu
 85 90 95
 Glu Ser Ile Leu Ala Gln Asn Pro Asp Phe Val Pro Ala Gln Leu Pro
 100 105 110
 Leu Leu Leu Gly Pro Glu Ser Lys Val Ala Lys Arg Glu Asp Leu Ala
 115 120 125
 Thr Val Gly Val Asn Ser Tyr Leu Ser Pro Gly Met Cys Ala Thr Lys
 130 135 140
 Lys Ala Ala Gly Asp Met Tyr Gly Ser Arg Gln Thr Leu Trp Asp Met
 145 150 155 160
 Thr Tyr Leu Tyr Gln Glu Ile Glu Asp Phe Ala Lys Ile Phe Asn Val
 165 170 175
 Glu Ala Arg Gly Gln Ala Val Ile Ala Asp Phe Lys Lys Arg Glu Ala
 180 185 190
 Asp Leu Arg Gln Glu Phe Gly Lys Asn Asn Lys Asp Leu Ser Phe Val
 195 200 205
 Phe Trp Phe Ser Ser Ser Ser Pro Ser Ala Asp Ala Tyr Val Gly Gly
 210 215 220
 Lys Asn Ser Ala Ser Gly Phe Ile Ala Asn Val Leu Gly Gly His Asn
 225 230 235 240
 Ala Ile Thr Ser Glu Thr Glu Trp Pro Thr Val Gly Trp Glu Ser Ile
 245 250 255
 Ile Ala Ala Asn Pro Asp Val Ile Val Val Ser Ser Leu Asp Arg Asn
 260 265 270
 Arg Trp Ala Leu Asp Asn Ala Glu Glu Lys Ile Lys Phe Leu Lys Ser
 275 280 285
 Asp Pro Ala Val Ser Gln Met Glu Ala Val Lys Lys Gly His Ile Val
 290 295 300
 Val Met Asp Gly Gln Ala Met Asn Pro Thr Ile Arg Thr Leu Tyr Gly
 305 310 315 320
 Ala Glu Gln Val Gly Glu Gln Ile Arg Lys Leu Gly Leu Asp
 325 330 335

<210> 9707
 <211> 249
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9707

```

Arg Met His Trp Arg Asn Leu Thr Cys Ser Ala Cys Arg Arg Glu Arg
1      5      10      15
Gln Pro Gly Arg Cys Gln Ser Ser Tyr Trp Val Ser Ala Pro Gly Ala
20      25      30
Val Ser Leu Ser Ala Gly Ala Phe Ala Gly Ala Phe Ala Phe Ala
35      40      45
Phe Val Ala Phe Leu Thr Asn Gly Ala Arg Gly Gly Asn Glu Arg Thr
50      55      60
Ile Leu Ala Gly Val Ala Ala Ser Gln Leu Phe Asn Ala Ile Thr Ala
65      70      75      80
Tyr Thr Ile Ser Thr Ser Ala Ser Ala Gln Gln Ala Arg Asp Val Met
85      90      95
Phe Trp Leu Leu Gly Ser Phe Ser Gly Val Arg Trp Pro Glu Phe Gln
100     105
Leu Ala Leu Val Val Val Leu Ala Gly Leu Ala Val Cys Leu Tyr Tyr
115     120     125
Ser Arg Ala Leu Asp Ala Phe Thr Phe Gly Asp Asp Ala Ala Ala Ser
130     135     140
Leu Gly Ile Ala Val Pro Trp Val Arg Leu Ala Leu Phe Thr Thr Thr
145     150     155     160
Ala Leu Ile Thr Ala Thr Ile Val Ser Met Ala Gly Ser Ile Gly Phe
165     170     175
Val Gly Leu Val Val Pro His Val Met Arg Phe Leu Phe Gly Pro Leu
180     185     190
His Arg Thr Leu Leu Ile Ala Ser Ala Leu Ala Gly Ala Ile Leu Met
195     200     205
Val Leu Ala Asp Ile Ala Ser Arg Met Leu Ile Ala Pro Gln Ser Leu
210     215     220
Pro Val Gly Val Val Thr Ala Leu Val Gly Val Pro Phe Phe Ala Val
225     230     235     240
Ile Ile Tyr Arg Ser Arg Asn Lys
245

```

<210> 9708
 <211> 145
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9708

```

Arg Glu Tyr Phe Ser Val Gly Val Ser Met Glu Leu Arg Gln Glu Ala
1      5      10      15
Phe His Leu Leu Arg Gln Leu Phe Gln Gln His Thr Ala Gln Trp Gln
20      25      30
His Ala Leu Pro Glu Leu Thr Lys Pro Gln Tyr Ala Val Met Arg Ser
35      40      45
Ile Ala Glu Asn Pro Gly Ile Glu Gln Val Ala Leu Thr Glu Val Ala
50      55      60
Val Ser Thr Lys Ala Thr Leu Ala Glu Met Leu Ser Arg Met Glu Ala
65      70      75      80
Arg Gly Leu Val Arg Arg Glu His Asp Pro Ala Asp Lys Arg Arg Arg
85      90      95
Phe Val Phe Leu Thr Ala Glu Gly Glu Ala Leu Leu Glu Ser Ser Lys
100     105     110
Pro Ile Gly Asn Glu Val Asp Glu Ala Phe Leu Gly Arg Leu Asn Gly
115     120     125

```

Ala Glu Arg Glu Gln Phe Ser Ala Leu Ile Lys Lys Met Met Gln Gly
 130 135 140

145

<210> 9709

<211> 472

<212> PRT

<213> Enterobacter cloacae

<400> 9709

Lys Leu Thr Thr Ala Phe Val Ser Pro Ile Ala Ser Ala Ala Val
 1 5 10 15
 Lys Leu Pro Val Ser Ala Thr Ala Ile Asn Ile Ala Val Arg Cys Lys
 20 25 30
 Leu Ser Ile Ala Cys Leu Val Asn Cys Gln Asn Asn Val Asp Ser Ile
 35 40 45
 Ser Cys Phe Val Ala Phe Ile Arg Asn Val Arg Ala Asp Thr Ile Arg
 50 55 60
 His Leu Thr Gly Gly Thr Ser Met Thr Tyr Arg Ser Lys Ile Ala Val
 65 70 75 80
 Val Phe Leu Leu Gly Phe Phe Leu Asp Leu Ile Asn Met Phe Ile Ala
 85 90 95
 Ser Val Ala Phe Pro Ala Met Ala Arg Ala Phe Asn Thr Thr Pro Ser
 100 105 110
 Ala Leu Ala Trp Val Ser Asn Gly Tyr Ile Ala Gly Leu Thr Leu Val
 115 120 125
 Ile Pro Phe Ser Ser Ile Leu Thr Arg Arg Val Gly Pro Lys Arg Val
 130 135 140
 Ile Leu Leu Ser Leu Leu Phe Ser Ala Ala Ser Val Ala Ala Gly
 145 150 155 160
 Leu Ser Ser Ser Leu Glu Ser Leu Ile Ala Trp Arg Val Val Gln Gly
 165 170 175
 Ala Gly Gly Gly Leu Leu Ile Pro Val Gly Gln Ala Leu Thr Trp Gln
 180 185 190
 Gln Phe Lys Pro His Glu Arg Ala Arg Leu Ser Ser Ala Val Met Leu
 195 200 205
 Val Ala Leu Leu Ala Pro Ala Cys Ser Pro Ala Val Gly Met Leu
 210 215 220
 Val Gln Thr Phe Ser Trp Arg Trp Ile Phe Phe Ala Thr Leu Pro Val
 225 230 235 240
 Val Ile Val Thr Phe Ala Leu Ala Cys Ala Trp Leu Lys Thr Glu Pro
 245 250 255
 Ser Pro Ile Thr Pro Thr Arg Thr Val Asn Leu Ser Leu Leu Thr Asp
 260 265 270
 Pro Leu Leu Arg Leu Ser Met Leu Ile Tyr Val Cys Val Pro Gly Ile
 275 280 285
 Phe Ile Gly Val Asn Val Thr Gly Met Tyr Tyr Leu Gln Ser Glu Ala
 290 295 300
 Asn Met Thr Pro Ala Ala Thr Gly Met Leu Met Leu Pro Trp Ser Val
 305 310 315 320
 Ala Ser Phe Leu Ala Ile Thr Ala Thr Gly Arg Tyr Phe Asn Arg Ile
 325 330 335
 Gly Pro Arg Pro Leu Val Val Ile Gly Cys Leu Leu Gln Ala Thr Gly
 340 345 350
 Ile Leu Leu Leu Val Asn Val Gly Pro Ala Met Leu Leu Pro Ala Val
 355 360 365
 Ala Phe Ala Leu Met Gly Ala Gly Ser Leu Cys Ser Ser Thr Ala
 370 375 380
 Gln Ser Ser Ala Phe Leu Thr Met Arg Pro Glu Asp Met Pro Asp Ala
 385 390 395 400

Ser Ala Leu Trp Asn Leu Asn Arg Gln Leu Ser Phe Phe Ala Gly Ala
 405 410 415
 Leu Leu Leu Ala Gln Ala Leu Ser Phe Met Gln Ala Tyr Leu Ser Pro
 420 425 430
 Leu Ala Ala Trp His Gly Met Phe Val Phe Ala Ala Val Ile Thr Leu
 435 440 445
 Leu Pro Val Leu Tyr Val Tyr Arg Leu Asn Asn Thr Gln Leu Leu Ala
 450 455 460
 Gln Leu Gln Gln Glu Gln Pro
 465 470

<210> 9710

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 9710

Asn Cys Ser Leu Met Thr Ser Arg Pro Val Ala Leu Arg Leu Pro Gly
 1 5 10 15
 Leu Arg Leu Arg His Thr Thr Met Lys Ile Val Ile Ala Pro Asp Ser
 20 25 30
 Tyr Lys Glu Ser Leu Ser Ala Thr Glu Val Ala Gln Ala Ile Glu Lys
 35 40 45
 Gly Phe Arg Glu Ile Phe Pro Asp Ala His Tyr Val Ser Val Pro Val
 50 55 60
 Ala Asp Gly Gly Glu Gly Thr Val Glu Ala Met Ile Ala Ala Thr Gln
 65 70 75 80
 Gly Thr Trp Gln Gln Ala Val Val Thr Gly Pro Leu Gly Glu Lys Val
 85 90 95
 Lys Ala Ser Trp Gly Ile Ser Gly Asp Gly Thr Thr Ala Phe Ile Glu
 100 105 110
 Met Ala Ala Ala Ser Gly Leu Val Leu Val Pro Pro Ala Gln Arg Asn
 115 120 125
 Pro Leu Val Thr Thr Ser Arg Gly Thr Gly Glu Leu Ile Leu Arg Ala
 130 135 140
 Leu Asp Lys Gly Ala Arg Asn Ile Ile Ile Gly Ile Gly Gly Ser Ala
 145 150 155 160
 Thr Asn Asp Gly Gly Ala Gly Met Met Gln Ala Leu Gly Ala Lys Phe
 165 170 175
 Thr Asp Ala Asn Gly Thr Glu Ile Gly Tyr Gly Gly Gly Ser Leu Met
 180 185 190
 Ala Leu Asn Arg Ile Asp Ile Ser Asp Leu Asp Pro Arg Leu Gln Gly
 195 200 205
 Cys Ala Ile Arg Val Ala Cys Asp Val Thr Asn Pro Leu Val Gly Glu
 210 215 220
 Ser Gly Ala Ser Arg Ile Phe Gly Pro Gln Lys Gly Ala Thr Glu Glu
 225 230 235 240
 Met Ile Leu Glu Leu Asp Ala Ser Leu Ser His Tyr Ala Glu Val Ile
 245 250 255
 Lys Lys Thr Leu Arg Ile Asp Val Asn Arg Val Pro Gly Ala Gly Ala
 260 265 270
 Ala Gly Gly Met Gly Ala Ala Leu Met Ala Phe Leu Gly Ala Glu Leu
 275 280 285
 Lys Ser Gly Ile Glu Ile Val Thr Gln Ala Leu Asn Leu Glu Glu His
 290 295 300
 Ile His Asp Cys Thr Trp Val Leu Thr Gly Glu Gly Arg Ile Asp Ser
 305 310 315 320
 Gln Ser Ile Asn Gly Lys Val Pro Val Gly Val Ala Ser Val Ala Lys
 325 330 335
 Lys Tyr His Lys Pro Val Ile Gly Ile Ala Gly Ser Leu Thr Gln Asp
 340 345 350

Val Gly Val Val His Gln Tyr Gly Ile Asp Ala Val Phe Ser Val Leu
 355 360 365
 Thr Arg Ile Gly Ser Leu Glu Glu Ala Phe Gln Gly Ala Tyr Asp Asn
 370 375 380
 Ile Tyr Arg Ala Ser Arg Asn Ile Ala Ala Thr Leu Gln Val Gly Met
 385 390 395 400
 Arg Ser Gln Gly
 405

<210> 9711

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 9711

Ser Pro His Ile Asn Ser His Leu His Leu Leu Thr Arg Asn Arg
 1 5 10 15
 Trp Arg Ser Glu Ser Tyr Lys Asn Asn Gln Leu Pro Tyr Lys Ile Ser
 20 25 30
 Glu Cys Pro Met Asn Met Ala Thr Asn Ser Ser Val Ile Val Ser Asp
 35 40 45
 Ser Pro Ala Ala Arg Arg Ala Gly Met Ser Glu Ser Glu Trp Arg Glu
 50 55 60
 Ala Ile Lys Phe Asp Ser Thr Asp Thr Gly Trp Val Ile Met Ser Ile
 65 70 75 80
 Gly Met Ala Ile Gly Ala Gly Ile Val Phe Leu Pro Val Gln Val Gly
 85 90 95
 Leu Met Gly Leu Trp Val Phe Leu Leu Ser Ser Ile Ile Gly Tyr Pro
 100 105 110
 Ala Met Tyr Leu Phe Gln Arg Leu Phe Ile Asn Thr Leu Ala Glu Ser
 115 120 125
 Pro Glu Cys Lys Asp Tyr Pro Ser Val Ile Ser Gly Tyr Leu Gly Lys
 130 135 140
 Asn Trp Gly Ile Leu Leu Gly Ala Leu Tyr Phe Val Met Leu Val Ile
 145 150 155 160
 Trp Met Phe Val Tyr Ser Thr Ala Ile Thr Asn Asp Ser Ala Ser Tyr
 165 170 175
 Leu His Thr Phe Gly Val Thr Asp Gly Leu Leu Ser Glu Asn Pro Phe
 180 185 190
 Tyr Gly Leu Phe Leu Ile Cys Ile Leu Val Ala Ile Ser Ser Arg Gly
 195 200 205
 Glu Lys Leu Leu Phe Lys Val Ser Ser Leu Met Val Leu Thr Lys Leu
 210 215 220
 Phe Val Val Ala Ala Leu Gly Leu Ser Met Ile Gly Leu Trp His Leu
 225 230 235 240
 Ala Asn Val Gly Met Leu Pro Pro Met Gly Leu Leu Ile Lys Asn Ala
 245 250 255
 Ile Ile Thr Leu Pro Phe Thr Leu Thr Ser Ile Leu Phe Ile Gln Thr
 260 265 270
 Leu Ser Pro Met Val Ile Ser Tyr Arg Ser Arg Glu Lys Ser Val Glu
 275 280 285
 Val Ala Arg His Lys Ala Leu Arg Ala Met Asn Ile Ala Phe Gly Val
 290 295 300
 Leu Phe Val Thr Val Phe Phe Tyr Ala Val Ser Phe Thr Leu Ala Met
 305 310 315 320
 Gly His Asp Glu Ala Val Lys Ala Tyr Glu Gln Asn Ile Ser Ala Leu
 325 330 335
 Ala Ile Ala Ala Gln Phe Ile Ser Gly Asp Gly Ala Gly Trp Val Lys
 340 345 350
 Ile Val Ser Val Ile Leu Asn Ile Phe Ala Val Met Thr Ala Phe Phe
 355 360 365

Cys Arg Asp Glu Glu Thr Phe Glu Lys Thr Val Thr Met Val Asn Asp
 325 330 335
 Phe Lys Gln Tyr Phe Ile Ala His Asn Gln Pro Ile Tyr Glu Asn Pro
 340 345 350
 Ser Pro Gly Asn Lys Ala Gly Gly Ile Thr Thr Leu Glu Glu Lys Ser
 355 360 365
 Leu Gly Cys Thr Gln Lys Ala Gly Ala Ser Gln Val Val Asp Val Leu
 370 375 380
 Arg Tyr Gly Glu Arg Leu Lys Thr His Gly Leu Asn Leu Leu Ser Ala
 385 390 395 400
 Pro Gly Asn Asp Ala Val Ala Thr Ser Ala Leu Ala Gly Ala Gly Cys
 405 410 415
 His Met Val Leu Phe Ser Thr Gly Arg Gly Thr Pro Tyr Gly Gly Phe
 420 425 430
 Val Pro Thr Val Lys Ile Ala Thr Asn Ser Glu Leu Ala Ala Lys Lys
 435 440 445
 Lys His Trp Ile Asp Phe Asp Ala Gly Gln Leu Ile His Gly Lys Ala
 450 455 460
 Met Pro Gln Leu Leu Thr Glu Phe Val Asp Thr Ile Val Glu Phe Ala
 465 470 475 480
 Asn Gly Arg Gln Thr Cys Asn Glu Lys Asn Asp Phe Arg Glu Leu Ala
 485 490 495
 Ile Phe Lys Ser Gly Val Thr Leu
 500 505

<210> 9713

<211> 465

<212> PRT

<213> Enterobacter cloacae

<400> 9713

Asp Thr Gly Phe Ser Asp Pro Ala Tyr Thr Ala Arg Gly Leu Cys Gln
 1 5 10 15
 Ser Arg Asn His Ala Cys Pro Gly Ser Val Phe Pro Ala Pro His Arg
 20 25 30
 Ala Phe Pro Arg Gln Ser Gly His Glu Pro Gly Lys Val Asn Ala Pro
 35 40 45
 Asp Ser Pro Gly Asp Lys Ser Ala Gly Ser Ser Lys Pro Gln Asn Ser
 50 55 60
 Val Lys Thr Gly Ile Leu Thr His Pro Phe Gln Gly Tyr Ala Lys Phe
 65 70 75 80
 Tyr His Ser Gly Gly Pro Met Ser His Leu Asp Asn Gly Phe Arg Ser
 85 90 95
 Leu Asn Leu Lys Arg Phe Pro Glu Thr Asp Asp Val Asn Pro Leu Gln
 100 105 110
 Ala Trp Glu Ala Ala Asp Glu Tyr Leu Leu Gln Gln Leu Asp Glu Thr
 115 120 125
 Glu Ile Ser Gly Pro Val Leu Ile Leu Asn Asp Ala Phe Gly Ala Leu
 130 135 140
 Ala Cys Ala Leu Ala Glu His Ala Pro Tyr Ser Ile Gly Asp Ser Tyr
 145 150 155 160
 Leu Ser Glu Leu Ala Thr Arg Glu Asn Leu Arg His Asn Asp Ile Glu
 165 170 175
 Glu Ser Ser Val Lys Phe Leu Asp Ser Thr Ala Asp Tyr Pro Gln Ala
 180 185 190
 Pro Gly Val Val Leu Ile Lys Val Pro Lys Thr Met Ala Leu Leu Glu
 195 200 205
 Gln Gln Leu Arg Ala Leu Arg Lys Val Val Thr Pro Glu Thr Arg Ile
 210 215 220
 Ile Ala Gly Ala Lys Ala Arg Asp Ile His Thr Ser Thr Leu Glu Leu
 225 230 235 240


```

Phe Glu Lys Val Leu Gly Pro Thr Thr Thr Thr Leu Ala Trp Lys Lys
      245      250      255
Ala Arg Leu Ile Asn Cys Thr Phe Ser Ala Pro Ala Leu Ala Asp Ala
      260      265      270
Pro Glu Thr Leu Ser Trp Lys Leu Glu Gly Thr Asp Trp Thr Ile His
      275      280      285
Asn His Ala Asn Val Phe Ser Arg Thr Gly Leu Asp Ile Gly Ala Arg
      290      295      300
Phe Phe Met Glu His Leu Pro Glu Asn Leu Glu Gly Glu Ile Val Asp
305      310      315      320
Leu Gly Cys Gly Asn Gly Val Ile Gly Leu Thr Leu Leu Ala Lys Asn
      325      330      335
Pro Glu Ala Ser Val Val Phe Ser Asp Glu Ser Pro Met Ala Val Ala
      340      345      350
Ser Ser Arg Leu Asn Val Glu Thr Asn Leu Pro Glu Ala Leu Asp Arg
      355      360      365
Cys Glu Phe Met Ile Asn Asn Ala Leu Ser Gly Val Glu Pro Phe Arg
      370      375      380
Phe Asn Ala Val Phe Cys Asn Pro Pro Phe His Gln Lys His Ala Leu
385      390      395      400
Thr Asp Asn Val Ala Trp Glu Met Phe His His Ala Arg Arg Cys Leu
      405      410      415
Lys Ile Asn Gly Glu Leu Tyr Ile Val Ala Asn Arg His Leu Asp Tyr
      420      425      430
Phe His Lys Leu Lys Lys Ile Phe Gly Asn Cys Val Thr Ile Ala Thr
      435      440      445
Asn Asn Lys Phe Val Val Leu Lys Ser Val Lys Leu Gly Arg Arg Arg
      450      455      460

```

465

<210> 9714

<211> 313

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (313)

<400> 9714

```

Val Ser Arg Pro Arg Gly Ser Gly Ala Gly Asn Ala Ser Gly Arg Ala
1      5      10      15
Gln Arg Arg Ala Ala Ala Pro Arg Arg Gln Pro Arg Pro Asp Asp Gly
      20      25      30
Ala Gly Val Trp Arg Ala Ile Met Lys Ile Leu Leu Lys Asn Arg Glu
      35      40      45
Leu Ser Ala Phe Leu Ala Ile Leu Ala Leu Phe Ala Val Leu Val Ala
      50      55      60
Leu Asn Pro Ser Tyr Leu Ser Leu Gln Thr Leu Gly Met Ile Phe Ala
65      70      75      80
Ser Ala Gln Ile Leu Ile Leu Leu Ala Ile Gly Ala Ala Leu Val Met
      85      90      95
Leu Thr Arg Asn Ile Asp Val Ser Val Gly Ser Thr Val Gly Leu Ser
      100      105      110
Ala Ile Ala Val Gly Val Ala Leu Asn Ser Gly Tyr Ser Leu Pro Val
      115      120      125
Ser Ile Leu Phe Ala Leu Ser Ile Gly Ala Leu Ala Gly Ala Phe Asn
      130      135      140
Gly Phe Leu Val Val Gly Leu Arg Ile Pro Ala Ile Val Ala Thr Leu
145      150      155      160

```

Gly Thr Leu Gly Leu Tyr Arg Gly Ala Met Leu Leu Trp Thr Gly Gly
 165 170 175
 Lys Trp Ile Glu Gly Leu Pro Pro Gly Leu Lys Ser Leu Ser Glu Pro
 180 185 190
 Ala Ala Val Gly Ile Ser Pro Leu Gly Met Leu Val Leu Ile Ile Ala
 195 200 205
 Ala Thr Gly Ala Trp Thr Leu Ser Arg Thr Ala Phe Gly Arg Ile Phe
 210 215 220
 Tyr Ala Val Gly Asp Asn Leu Ala Ala Ala Arg Gln Leu Gly Val Ala
 225 230 235 240
 Val Asn Arg Thr Arg Met Ile Ala Phe Thr Leu Asn Gly Leu Leu Ala
 245 250 255
 Ala Cys Ala Gly Ile Val Phe Ala Ala Gln Ile Gly Phe Val Pro Asn
 260 265 270
 Gln Thr Gly Ser Gly Leu Glu Met Lys Ala Ile Ala Ala Leu Arg Ala
 275 280 285
 Gly Gly His Leu Ala Ala Gly Arg His Arg His Ala Asp Leu Ile Gln
 290 295 300
 Pro Pro Gly Trp Lys Asp Gln Arg Xaa
 305 310

<210> 9715

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 9715

Val Met Ser Asn Asp Ile Phe Pro Asn Lys Phe Lys Ala Ala Leu Ala
 1 5 10 15
 Ala His Gln Ile Gln Ile Gly Cys Trp Ser Ala Leu Ala Asn Pro Ile
 20 25 30
 Ser Thr Glu Val Leu Gly Leu Ala Gly Phe Asp Trp Leu Val Leu Asp
 35 40 45
 Gly Glu His Ala Pro Asn Asp Ile Asn Thr Phe Ile Pro Gln Leu Met
 50 55 60
 Ala Leu Lys Gly Ser His Ser Ala Pro Val Val Arg Val Pro Thr Asn
 65 70 75 80
 Glu Pro Val Ile Ile Lys Arg Leu Leu Asp Ile Gly Phe Tyr Asn Phe
 85 90 95
 Leu Ile Pro Phe Val Glu Thr Glu Glu Ala Val Gln Ala Val Ala
 100 105 110
 Ala Thr Arg Tyr Pro Pro Glu Gly Ile Arg Gly Val Ser Val Ser His
 115 120 125
 Arg Ala Asn Met Phe Gly Thr Val Pro Asp Tyr Phe Ser Gln Ser Asn
 130 135 140
 Lys Asn Ile Thr Ile Leu Val Gln Ile Glu Ser Gln Gln Gly Val Asp
 145 150 155 160
 Asn Val Asp Ala Ile Ala Ala Thr Glu Gly Val Asp Gly Ile Phe Val
 165 170 175
 Gly Pro Ser Asp Leu Ala Ala Ala Phe Gly His Leu Gly Asn Ala Ser
 180 185 190
 His Pro Asp Val Gln Arg Ala Ile Gln His Ile Phe Ala Arg Ala Lys
 195 200 205
 Ala His Gly Lys Pro Cys Gly Ile Leu Ala Pro Val Glu Ala Asp Ala
 210 215 220
 Arg Arg Tyr Leu Glu Trp Gly Ala Thr Phe Val Ala Val Gly Ser Asp
 225 230 235 240
 Leu Gly Val Phe Arg Ala Ala Thr Gln Lys Leu Ala Asp Ala Phe Lys
 245 250 255

Lys

<210> 9716
 <211> 304
 <212> PRT
 <213> Enterobacter cloacae

<400> 9716
 Pro Ser Leu Arg Lys Gln Ile Met Thr Leu Lys Val Gly Phe Ile Gly
 1 5 10 15
 Leu Gly Ile Met Gly Lys Pro Met Ser Lys Asn Leu Ile Lys Ala Gly
 20 25 30
 Tyr Ser Leu Val Val Leu Asp Arg Asn Ser Asp Ala Val Ala Glu Val
 35 40 45
 Ile Ala Ala Gly Ala Glu Thr Ala Thr Ala Lys Ala Ile Ala Glu
 50 55 60
 Gln Cys Asp Val Ile Ile Thr Met Leu Pro Asn Ser Pro His Val Lys
 65 70 75 80
 Glu Val Ala Leu Gly Glu Asn Gly Ile Ile Asp Gly Ala Lys Pro Gly
 85 90 95
 Leu Val Val Ile Asp Met Ser Ser Ile Ala Pro Leu Ala Ser Arg Glu
 100 105 110
 Ile Ser Glu Glu Leu Lys Ala Lys Gly Val Glu Met Leu Asp Ala Pro
 115 120 125
 Val Ser Gly Gly Glu Pro Lys Ala Ile Asp Gly Thr Leu Ser Val Met
 130 135 140
 Val Gly Gly Asp Lys Ala Val Phe Asp Lys Tyr Tyr Asp Leu Met Lys
 145 150 155 160
 Ala Met Ala Gly Ser Val Val His Thr Gly Glu Ile Gly Ala Gly Asn
 165 170 175
 Val Thr Lys Leu Ala Asn Gln Val Ile Val Ala Leu Asn Ile Ala Ala
 180 185 190
 Met Ser Glu Ala Leu Thr Leu Ala Thr Lys Ala Gly Val Asn Pro Asp
 195 200 205
 Leu Val Tyr Gln Ala Ile Arg Gly Gly Leu Ala Gly Ser Thr Val Leu
 210 215 220
 Asp Ala Lys Ala Pro Met Val Met Asp Arg Asn Phe Arg Pro Gly Phe
 225 230 235 240
 Arg Ile Asp Leu His Ile Lys Asp Leu Ala Asn Ala Leu Asp Thr Ser
 245 250 255
 His Gly Val Gly Ala Gln Leu Pro Leu Thr Ala Ala Val Met Glu Met
 260 265 270
 Met Gln Ala Leu Arg Ala Asp Gly Leu Gly Thr Ala Asp His Ser Ala
 275 280 285
 Leu Ala Cys Tyr Tyr Glu Lys Leu Ala Lys Val Glu Ile Ala Arg
 290 295 300

<210> 9717
 <211> 311
 <212> PRT
 <213> Enterobacter cloacae

<400> 9717
 Ala Gln Asn Ile Met Asn Thr Ile Ile Leu Pro Lys Thr Gln His Leu
 1 5 10 15
 Val Val Phe Gln Glu Val Ile Lys Ser Gly Ser Ile Gly Ser Ala Ala
 20 25 30
 Arg Gln Leu Gly Leu Thr Gln Pro Ala Val Ser Lys Ile Ile Ser Asp
 35 40 45
 Ile Glu Ser Tyr Phe Gly Val Glu Val Met Val Arg Lys Asn Thr Gly
 50 55 60
 Val Lys Leu Thr Ala Ala Gly Gln Val Leu Leu Ser Tyr Ala Glu Ser

65					70					75				80	
Ile	Thr	Arg	Glu	Met	Lys	Asn	Met	Val	Ser	Glu	Ile	Asn	Ser	Leu	Ser
				85					90					95	
Phe	Ser	Thr	Val	Met	Asp	Val	Ser	Phe	Gly	Tyr	Pro	Ser	Leu	Ile	Gly
			100					105					110		
Phe	Thr	Phe	Leu	Ser	Gly	Met	Ile	Lys	Lys	Phe	Lys	Glu	Val	Phe	Pro
		115					120					125			
Lys	Ala	Arg	Val	Ser	Met	Tyr	Glu	Ala	Gln	Leu	Ser	Ser	Phe	Leu	Pro
	130					135					140				
Ala	Ile	Arg	Asp	Gly	Arg	Leu	Asp	Phe	Ala	Ile	Gly	Thr	Leu	Ser	Asp
145					150					155					160
Gly	Met	Gln	Leu	Gln	Asp	Leu	His	Val	Glu	Pro	Leu	Phe	Glu	Ser	Glu
				165				170						175	
Phe	Val	Leu	Val	Ala	Ser	Lys	Ser	Arg	Thr	Cys	Thr	Gly	Pro	Thr	Arg
			180					185					190		
Leu	Ala	Ser	Leu	Thr	His	Glu	Gln	Trp	Val	Met	Pro	Gln	Thr	Asp	Met
		195					200					205			
Gly	Tyr	Tyr	Asn	Glu	Leu	Leu	Thr	Thr	Leu	Gln	Asp	Asn	His	Ile	Ser
	210					215					220				
Ile	Glu	Asn	Ile	Val	Gln	Thr	Asp	Ser	Val	Val	Thr	Ile	Tyr	Asn	Leu
225					230					235					240
Val	Leu	Asn	Ala	Asp	Tyr	Leu	Thr	Val	Ile	Pro	Arg	Asp	Met	Ile	Ala
			245					250						255	
Pro	Phe	Gly	Ser	Asp	Gln	Phe	Ile	Val	Leu	Pro	Val	Glu	Asp	Glu	Leu
			260					265					270		
Pro	Val	Ala	Arg	Tyr	Ala	Ala	Val	Trp	Ser	Lys	Asn	Tyr	Ser	Ile	Lys
		275					280					285			
Lys	Ser	Ala	Ser	Val	Leu	Val	Glu	Leu	Ala	Lys	Gln	Tyr	Ser	Ser	Met
	290					295					300				
Asn	Thr	Glu	Lys	Arg	Arg										
305					310										

<210> 9718

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 9718

Leu	Cys	Leu	Lys	Thr	Met	Asn	Tyr	Tyr	Asn	Glu	Asp	Ile	Met	His	Ile
1				5					10					15	
Thr	Tyr	Asp	Leu	Pro	Val	Thr	Ile	Glu	Asp	Ile	Gln	Asp	Ala	Arg	Lys
			20					25					30		
Arg	Leu	Ala	Gly	Lys	Ile	Tyr	Lys	Thr	Gly	Met	Pro	Arg	Ser	Asn	Tyr
		35					40					45			
Leu	Ser	Glu	Arg	Cys	Lys	Gly	Glu	Ile	Phe	Leu	Lys	Phe	Glu	Asn	Met
		50				55					60				
Gln	Arg	Thr	Gly	Ser	Phe	Lys	Ile	Arg	Gly	Ala	Phe	Asn	Lys	Leu	Ser
65					70					75				80	
Ser	Leu	Thr	Asp	Ala	Glu	Lys	Arg	Lys	Gly	Val	Val	Ala	Cys	Ser	Ala
				85					90					95	
Gly	Asn	His	Ala	Gln	Gly	Val	Ser	Leu	Ser	Cys	Ala	Met	Leu	Gly	Ile
			100					105					110		
Asp	Gly	Lys	Val	Val	Met	Pro	Met	Gly	Ala	Pro	Lys	Ser	Lys	Val	Ala
		115					120					125			
Ala	Thr	Arg	Asp	Tyr	Ser	Ala	Glu	Val	Val	Leu	His	Gly	Glu	Asn	Phe
					135						140				
Asn	Asp	Thr	Ile	Ala	Lys	Val	Ser	Glu	Ile	Val	Glu	Met	Glu	Gly	Arg
145					150					155					160
Ile	Phe	Ile	Pro	Pro	Tyr	Asp	Asp	Pro	Lys	Val	Ile	Ala	Gly	Gln	Gly
				165					170					175	
Thr	Ile	Gly	Leu	Glu	Ile	Leu	Glu	Asp	Leu	Tyr	Asp	Val	Asp	Asn	Val

```

      180      185      190
Ile Val Pro Ile Gly Gly Gly Gly Leu Ile Ala Gly Ile Ala Thr Ala
      195      200      205
Ile Lys Ser Ile Asn Pro Thr Ile Asn Ile Ile Gly Val Gln Ser Glu
      210      215      220
Asn Val His Gly Met Ala Ala Ser Tyr Gln Ala Gly Glu Ile Thr Asn
      225      230      235      240
His Arg Ile Thr Gly Thr Leu Ala Asp Gly Cys Asp Val Ser Arg Pro
      245      250      255
Gly Asn Leu Thr Phe Glu Ile Val Arg Glu Leu Val Asp Asp Ile Val
      260      265      270
Leu Val Ser Glu Asp Glu Ile Arg Asn Ser Met Ile Ala Leu Ile Gln
      275      280      285
Arg Asn Lys Val Val Thr Glu Gly Ala Gly Ala Leu Ala Cys Ala Ala
      290      295      300
Leu Leu Ser Gly Lys Leu Asp His Tyr Ile Gln Gly Arg Lys Thr Val
      305      310      315      320
Cys Ile Ile Ser Gly Gly Asn Ile Asp Leu Ser Arg Val Ser Gln Ile
      325      330      335
Thr Gly Phe Val Asp Ala
      340

```

<210> 9719

<211> 503

<212> PRT

<213> Enterobacter cloacae

<400> 9719

```

Leu Thr Lys Lys Thr Ser Asp Ser Gly Asn Trp Cys Asp Asn Phe Ala
1      5      10      15
Ala Ser Glu His Lys Leu Ser Asp Ala Pro Val Met Arg Lys Thr Ile
      20      25      30
Met Thr Pro Phe Met Thr Asp Asp Phe Leu Leu Asp Thr Glu Phe Ala
      35      40      45
Arg Arg Leu Tyr His Asp Tyr Ala Lys Asp Gln Pro Ile Phe Asp Tyr
      50      55      60
His Cys His Leu Pro Pro Gln Gln Val Ala Glu Asn Tyr Arg Phe Lys
      65      70      75      80
Asn Leu Tyr Asp Ile Trp Leu Lys Gly Asp His Tyr Lys Trp Arg Ala
      85      90      95
Met Arg Thr Asn Gly Val Ala Glu Arg Leu Cys Thr Gly Asp Ala Thr
      100      105      110
Asp Arg Glu Lys Phe Asp Ala Trp Ala Ala Thr Val Pro His Thr Ile
      115      120      125
Gly Asn Pro Leu Tyr His Trp Thr His Leu Glu Leu Arg Arg Pro Phe
      130      135      140
Gly Ile Thr Gly Lys Leu Leu Ser Pro Ala Thr Ala Asp Glu Ile Trp
      145      150      155      160
Asp Gln Cys Asn Asp Leu Leu Ala Gln Asp Ser Phe Ser Ala Arg Gly
      165      170      175
Ile Met Lys Gln Met Asn Val Lys Met Val Gly Thr Thr Asp Asp Pro
      180      185      190
Val Asp Ser Leu Glu His His Ala Val Val Ala Lys Asp Ser Thr Phe
      195      200      205
Asp Ile Lys Val Leu Pro Ser Trp Arg Pro Asp Lys Ala Phe Asn Ile
      210      215      220
Glu Leu Pro Thr Phe Asn Asp Tyr Met Ala Lys Leu Ala Glu Val Ser
      225      230      235      240
Asp Thr Asp Ile Arg Arg Phe Gly Asp Leu Gln Thr Ala Leu Thr Lys
      245      250      255
Arg Leu Asp His Phe Ala Ala His Gly Cys Lys Val Ser Asp His Ala

```

```

      260                      265                      270
Leu Asp Val Val Leu Phe Ala Glu Ser Ser Glu Ala Glu Leu Asp Ser
      275                      280                      285
Ile Leu Ala Arg Arg Leu Ser Gly Glu Ala Leu Ser Glu His Glu Val
      290                      295                      300
Ala Gln Phe Lys Thr Ala Val Leu Val Phe Leu Gly Ala Glu Tyr Ala
305                      310                      315
Arg Arg Gly Trp Val Gln Gln Tyr His Ile Gly Ala Leu Arg Asn Asn
      325                      330                      335
Asn Gln Arg Gln Phe Lys Leu Leu Gly Ala Asp Val Gly Phe Asp Ser
      340                      345                      350
Ile Asn Asp Arg Pro Met Ala Glu Glu Leu Ser Lys Leu Leu Ser Lys
      355                      360                      365
Gln Asn Glu Gln Asn Leu Leu Pro Lys Thr Ile Leu Tyr Cys Leu Asn
      370                      375                      380
Pro Arg Asp Asn Glu Val Leu Gly Thr Met Ile Gly Asn Phe Gln Gly
385                      390                      395
Glu Gly Met Pro Gly Lys Met Gln Phe Gly Ser Gly Trp Trp Phe Asn
      405                      410                      415
Asp Gln Lys Asp Gly Met Glu Arg Gln Met Thr Gln Leu Ala Gln Leu
      420                      425                      430
Gly Leu Leu Ser Arg Phe Val Gly Met Leu Thr Asp Ser Arg Ser Phe
      435                      440                      445
Leu Ser Tyr Thr Arg His Glu Tyr Phe Arg Arg Ile Leu Cys Gln Met
      450                      455                      460
Ile Gly Arg Trp Val His Ala Gly Glu Ala Pro Ala Asp Ile Gln Leu
465                      470                      475
Leu Gly Glu Met Val Arg Asn Ile Cys Phe Asn Asn Ala Arg Asp Tyr
      485                      490                      495
Phe Ala Ile Glu Leu Asn
      500

```

<210> 9720

<211> 525

<212> PRT

<213> Enterobacter cloacae

<400> 9720

```

Ser Leu His Gly Cys Lys Tyr Ser Ser Pro Ser Thr Leu Leu Asn Ile
1      5      10      15
Ile Lys Ser Lys Asn His Leu Phe Asn Ser Gly Ala Met Met Thr Pro
      20      25      30
Leu Leu Asp Ala Arg Asp Ile Ser Lys Gln Phe Ser Gly Val Pro Val
      35      40      45
Leu Lys Gly Ile Asp Phe Thr Leu Leu Ala Gly Gln Val His Ala Leu
      50      55      60
Met Gly Gly Asn Gly Ala Gly Lys Ser Thr Leu Met Lys Ile Ile Ala
65      70      75      80
Gly Val Glu Thr Pro Asp Cys Gly Glu Leu Ser Val Ala Gly Glu Ser
      85      90      95
Phe Thr Arg Leu Thr Pro Ala Gln Ala His Arg Leu Gly Ile Tyr Leu
      100      105      110
Val Pro Gln Glu Pro Leu Leu Phe Pro Asn Leu Thr Val Arg Glu Asn
      115      120      125
Ile Leu Phe Arg Leu Pro Arg Glu Arg Asp Arg Glu Lys Arg Leu Ala
      130      135      140
Glu Lys Leu Arg Gln Leu Gln Cys Gln Leu Asn Leu Asp Ala Thr Ala
145      150      155      160
Ser Thr Leu Glu Val Ala Asp Gln Gln Met Val Glu Ile Leu Arg Gly
      165      170      175
Leu Met Arg Asn Ala Arg Ile Leu Ile Leu Asp Glu Pro Thr Ala Ser

```

180 185 190
 Leu Thr Pro Gly Glu Thr Glu Arg Leu Phe Arg Gln Ile Arg Ala Leu
 195 200 205
 Gln Asp Leu Gly Val Gly Ile Val Phe Ile Ser His Lys Leu Pro Glu
 210 215 220
 Ile Arg Gln Leu Ala Ser His Val Ser Val Met Arg Asp Gly Ala Val
 225 230 235 240
 Val Leu Ser Gly Glu Thr Ala Gln Phe Asp Asp Asn Ala Leu Ile Ala
 245 250 255
 Ala Met Thr Pro Val Ser Arg Glu Thr Ser Leu Ser Asp Thr Gln Lys
 260 265 270
 Leu Trp Leu Ala Leu Pro Gly Asn Arg Arg Thr Gln Ala Gln Asp Phe
 275 280 285
 Pro Val Leu Arg Val Glu Asp Leu Thr Gly Glu Gly Phe Ile Asp Leu
 290 295 300
 Ser Leu Glu Ile Tyr Ala Gly Glu Ile Val Gly Leu Ala Gly Leu Val
 305 310 315 320
 Gly Ser Gly Arg Thr Glu Phe Ala Glu Thr Leu Tyr Gly Leu Arg Pro
 325 330 335
 Val Arg Gly Gly Arg Val Trp Leu Glu Asn Gln Glu Ile Thr Thr Glu
 340 345 350
 Pro Val Gly Ser Arg Leu Glu Lys Gly Leu Val Tyr Leu Pro Glu Asp
 355 360 365
 Arg Gln Val Ser Gly Leu Phe Leu Asp Ala Pro Ile Arg Trp Asn Thr
 370 375 380
 Val Ala Leu Asn Glu Pro Ser Leu Trp Gln Gln Arg Lys Arg Glu Ser
 385 390 395 400
 Ala Val Val Glu Arg Tyr His Arg Ala Leu Gly Ile Lys Leu Asn His
 405 410 415
 Ala Asp Gln Thr Val Arg Thr Leu Ser Gly Gly Asn Gln Gln Lys Val
 420 425 430
 Leu Leu Ala Arg Cys Leu Glu Ala Asn Pro Leu Leu Leu Ile Val Asp
 435 440 445
 Glu Pro Thr Arg Gly Val Asp Val Ser Ala Arg Ala Asp Ile Tyr Gln
 450 455 460
 Leu Leu Lys Ser Val Ala Ala Gln Asn Val Ala Val Leu Met Ile Ser
 465 470 475 480
 Ser Asp Leu Asp Glu Phe Pro Gly Leu Ala Asp Arg Val Leu Val Met
 485 490 495
 His Gln Gly Val Leu Ser Gly Glu Leu Pro Arg His Ala Val Ser Leu
 500 505 510
 Asp Arg Met Met Ala Leu Ala Phe Gly Gly Gln Ser
 515 520 525

<210> 9721

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 9721

Gly Ala Arg Met Ser Ser Thr Asp Ser Ser Ala Glu Lys Arg Ile Thr
 1 5 10 15
 Gly Thr Ser Glu Arg Arg Glu Gln Ile Ile Gln Arg Leu Arg Ala Gln
 20 25 30
 Gly Ser Val Gln Val Asn Asp Leu Ser Leu Leu Phe Gly Val Ser Thr
 35 40 45
 Val Thr Ile Arg Asn Asp Leu Ala Phe Leu Glu Lys Gln Gly Ile Ala
 50 55 60
 Val Arg Ala Tyr Gly Gly Ala Leu Ile Cys Glu Gly Asn Ala Pro Gly
 65 70 75 80
 Val Glu Pro Ser Val Glu Asp Lys Ser Ser Leu Asn Thr Ala Val Lys

```
<210> 9722
<211> 445
<212> PRT
<213> Enterobacter cloacae
```

Leu 1	Met	Ser	Asn 5	Thr	Glu	Ser	Ile	Ile	Val 10	Gly	Gln	Thr	Lys 15	Thr	Ser
Ser	Trp	Arg	Lys 20	Ser	Asp	Thr	Thr	Trp 25	Thr	Leu	Gly	Leu	Phe 30	Gly	Thr
Ala	Ile	Gly 35	Ala	Gly	Val	Leu	Phe 40	Phe	Pro	Ile	Arg	Ala 45	Gly	Phe	Gly
Gly	Leu 50	Ile	Pro	Ile	Leu	Leu 55	Met	Leu	Val	Leu	Ala 60	Phe	Pro	Ile	Ala
Phe 65	Tyr	Cys	His	Arg	Ala 70	Leu	Ala	Arg	Leu	Cys 75	Leu	Ser	Gly	Ser	Asn 80
Val	Ser	Gly	Asn 85	Ile	Thr	Glu	Thr	Val	Glu 90	Glu	His	Phe	Gly	Lys 95	Thr
Gly	Gly	Val 100	Val	Ile	Thr	Phe	Leu	Tyr 105	Phe	Phe	Ala	Ile 110	Cys	Pro	Leu
Leu	Trp	Ile 115	Tyr	Gly	Val	Thr	Ile 120	Thr	Asn	Thr	Phe	Met 125	Thr	Phe	Trp
Glu	Asn 130	Gln	Leu	Gln	Met	Pro 135	Ala	Leu	Asn	Arg	Gly 140	Val	Val	Ala	Leu
Phe 145	Leu	Leu	Leu	Leu	Met 150	Ala	Phe	Val	Ile	Trp 155	Phe	Gly	Lys	Asp	Leu 160
Met	Val	Lys 165	Val	Met	Ser	Tyr	Leu	Val	Phe 170	Pro	Phe	Ile	Ala	Ser 175	Leu
Val	Leu	Ile 180	Ser	Leu	Ser	Leu	Ile 185	Pro	Tyr	Trp	Asn	Ser 190	Ala	Val	Ile
Asp	Gln 195	Val	Asn	Leu	Ser	Asp	Ile 200	Ala	Phe	Thr	Gly	His 205	Asp	Gly	Ile
Leu	Val 210	Thr	Val	Trp	Leu	Gly 215	Ile	Ser	Ile	Met	Val 220	Phe	Ser	Phe	Asn
Phe 225	Ser	Pro	Ile	Val	Ser 230	Ser	Phe	Val	Val	Ser 235	Lys	Arg	Glu	Glu	Tyr
Glu	Pro	Glu	Phe	Gly	Lys	Glu	Phe	Thr	Glu	Gln	Lys	Cys	Ser	Lys	Ile

245 250 255
 Ile Gly Arg Ala Ser Leu Leu Met Val Ala Val Val Met Phe Phe Ala
 260 265 270
 Phe Ser Cys Leu Phe Thr Leu Ser Pro Gln Asn Met Ala Asp Ala Lys
 275 280 285
 Ala Gln Asn Ile Pro Val Leu Ser Tyr Leu Ala Asn His Phe Ala Ser
 290 295 300
 Met Ser Gly Ser Lys Ser Thr Phe Ala Thr Val Leu Glu Tyr Gly Ala
 305 310 315 320
 Ser Ile Ile Ala Leu Val Ala Ile Phe Lys Ser Phe Phe Gly His Tyr
 325 330 335
 Leu Gly Thr Leu Glu Gly Leu Asn Gly Leu Ile Ile Lys Phe Gly Tyr
 340 345 350
 Lys Gly Asp Lys Lys Asn Val Ser Val Gly Lys Leu Asn Thr Ile Ser
 355 360 365
 Met Val Phe Ile Met Gly Ser Thr Trp Ile Val Ala Tyr Ala Asn Pro
 370 375 380
 Asn Ile Leu Asp Leu Ile Glu Ala Met Gly Ala Pro Ile Ile Ala Ser
 385 390 395 400
 Leu Leu Cys Leu Leu Pro Met Tyr Ala Ile Arg Lys Ala Pro Ala Leu
 405 410 415
 Ala Lys Tyr Lys Gly Arg Thr Glu Asn Ile Phe Val Thr Val Val Gly
 420 425 430
 Leu Leu Thr Ile Leu Asn Ile Val Tyr Lys Leu Phe
 435 440 445

<210> 9723

<211> 413

<212> PRT

<213> Enterobacter cloacae

<400> 9723

Thr Lys Ala Gln Glu Arg Ser His Thr Met Ile Glu Phe Pro Val
 1 5 10 15
 Val Leu Val Ile Asn Cys Gly Ser Ser Ser Val Lys Phe Ser Val Leu
 20 25 30
 Asp Ala Ala Ser Cys Asp Ala Leu Met Thr Gly Ile Ala Asp Gly Ile
 35 40 45
 Asn Thr Glu Lys Ala Phe Ile Ser Val Asn Gly Gly Glu Pro Val Arg
 50 55 60
 Leu Ala His Gln Asp Tyr Glu Gly Ala Leu Ala Ala Ile Ala Leu Glu
 65 70 75 80
 Leu Glu Lys Arg Asn Leu Met Gly Ser Val Ala Leu Ile Gly His Arg
 85 90 95
 Ile Ala His Gly Gly Asp Leu Phe Ser Glu Ser Thr Leu Ile Thr Glu
 100 105 110
 Glu Val Met Ala Gln Ile Arg Gln Val Ser Pro Leu Ala Pro Leu His
 115 120 125
 Asn Tyr Ala Asn Leu Ser Gly Val Glu Ala Ala Glu Arg Leu Phe Pro
 130 135 140
 Gly Val Gln Gln Val Ala Val Phe Asp Thr Ser Phe His Gln Thr Met
 145 150 155 160
 Pro Pro Gln Ala Tyr Leu Tyr Gly Leu Pro Tyr Arg Tyr Phe Glu Glu
 165 170 175
 Leu Gly Val Arg Arg Tyr Gly Phe His Gly Thr Ser His Arg Tyr Val
 180 185 190
 Ser Ala Gln Ala His Ala Leu Phe Gly Leu Ser Pro Asp Asp Ser Gly
 195 200 205
 Leu Val Ile Ala His Leu Gly Asn Gly Ala Ser Ile Cys Ala Val Arg
 210 215 220
 Asn Gly Val Ser Val Asp Thr Ser Met Gly Met Thr Pro Leu Glu Gly

225 230 235 240
 Leu Val Met Gly Thr Arg Cys Gly Asp Val Asp Phe Gly Ala Met Ala
 245 250 255
 Trp Ile Ala Arg Gln Thr Gly Gln Ser Phe Glu Asp Leu Glu Arg Val
 260 265 270
 Val Asn Lys Glu Ser Gly Leu Leu Gly Ile Ser Gly Ile Ser Ser Asp
 275 280 285
 Leu Arg Ala Leu Glu Lys Ala Trp His Asp Gly Asn Glu Arg Ala Arg
 290 295 300
 Leu Ala Ile Lys Thr Phe Val His Arg Ile Ala Arg His Ile Ala Gly
 305 310 315
 His Ala Ala Ser Leu His Arg Leu Asp Gly Val Val Phe Thr Gly Gly
 325 330 335
 Ile Gly Glu Asn Ser Val Leu Ile Arg Ala Leu Val Ala Glu His Leu
 340 345 350
 Lys Val Phe Gly Ile Ile Leu Asp Glu Ser Lys Asn Ala Leu Pro Gly
 355 360 365
 Ser Ala Gly Glu Arg Val Ile Ser Thr Glu Ser Ser Arg Ala Ala Cys
 370 375 380
 Ala Val Ile Pro Thr Asn Glu Glu Lys Met Ile Ala Leu Asp Ala Leu
 385 390 395
 Arg Leu Gly Lys Val Thr Pro Ala Ala Tyr Ala
 405 410

<210> 9724

<211> 769

<212> PRT

<213> Enterobacter cloacae

<400> 9724

Ser Glu Asn Leu Met Lys Val Thr Ile Asp Thr Gly Val Ala Pro Tyr
 1 5 10 15
 Ser Asp Ala Trp Ala Gly Phe Arg Gly Glu Glu Trp Lys Asn Ala Ile
 20 25 30
 Asn Val Arg Asp Phe Ile Gln His Asn Tyr Thr Pro Tyr Glu Gly Asp
 35 40 45
 Glu Ala Phe Leu Ala Gln Ala Thr Pro Ala Thr Thr Ala Leu Trp Gln
 50 55 60
 Lys Val Met Val Gly Ile Arg Gln Glu Asn Ala Thr His Ala Pro Val
 65 70 75
 Asp Phe Asp Thr Asn Ile Ala Thr Thr Ile Thr Ala His Gly Pro Gly
 85 90 95
 Tyr Ile Asp Gln Glu Leu Glu Thr Ile Val Gly Leu Gln Thr Asp Lys
 100 105 110
 Pro Leu Lys Arg Ala Leu His Pro Tyr Gly Gly Ile Asn Met Ile Arg
 115 120 125
 Ser Ser Phe Glu Ala Tyr Gly Arg Glu Met Asp Pro Gln Phe Glu Tyr
 130 135 140
 Leu Phe Thr Asp Leu Arg Lys Thr His Asn Gln Gly Val Phe Asp Val
 145 150 155
 Tyr Ser Pro Glu Met Met Arg Cys Arg Lys Ser Gly Val Leu Thr Gly
 165 170 175
 Leu Pro Asp Gly Tyr Gly Arg Gly Arg Ile Ile Gly Asp Tyr Arg Arg
 180 185 190
 Val Ala Leu Tyr Gly Ile Ser Tyr Leu Val Arg Glu Arg Glu Leu Gln
 195 200 205
 Phe Ala Asp Leu Gln Gly Lys Leu Glu Arg Gly Glu Asp Leu Glu Ala
 210 215 220
 Thr Ile Arg Leu Arg Glu Glu Leu Ala Glu His Lys Arg Ala Leu Leu
 225 230 235
 Gln Ile Gln Gln Met Ala Ala Asn Tyr Gly Phe Asp Ile Ser Arg Pro

				245						250					255	
Ala	Met	Asn	Ala	Gln	Glu	Ala	Val	Gln	Trp	Leu	Tyr	Phe	Ala	Tyr	Leu	
			260					265					270			
Ala	Ala	Val	Lys	Ser	Gln	Asn	Gly	Gly	Ala	Met	Ser	Leu	Gly	Arg	Thr	
		275					280					285				
Ala	Ser	Phe	Leu	Asp	Ile	Tyr	Ile	Glu	Arg	Asp	Met	Gln	Ala	Gly	Arg	
		290				295					300					
Leu	Asn	Glu	Val	Gln	Ala	Gln	Glu	Leu	Ile	Asp	His	Phe	Ile	Met	Lys	
305					310					315					320	
Ile	Arg	Met	Val	Arg	Phe	Leu	Arg	Thr	Pro	Glu	Phe	Asp	Thr	Leu	Phe	
				325					330					335		
Ser	Gly	Asp	Pro	Ile	Trp	Ala	Thr	Glu	Val	Ile	Gly	Gly	Met	Gly	Leu	
			340					345					350			
Asp	Gly	Arg	Thr	Leu	Val	Thr	Lys	Asn	Ser	Phe	Arg	Tyr	Leu	His	Thr	
		355					360					365				
Leu	His	Thr	Met	Gly	Pro	Ala	Pro	Glu	Pro	Asn	Leu	Thr	Ile	Leu	Trp	
		370				375					380					
Ser	Glu	Lys	Leu	Pro	Ile	Ala	Phe	Lys	Lys	Tyr	Ala	Ala	Gln	Val	Ser	
385					390					395					400	
Ile	Val	Thr	Ser	Ser	Leu	Gln	Tyr	Glu	Asn	Asp	Asp	Leu	Met	Arg	Thr	
				405					410					415		
Asp	Phe	Asn	Ser	Asp	Asp	Tyr	Ala	Ile	Ala	Cys	Cys	Val	Ser	Pro	Met	
			420					425					430			
Val	Ile	Gly	Lys	Gln	Met	Gln	Phe	Phe	Gly	Ala	Arg	Ala	Asn	Leu	Ala	
		435					440					445				
Lys	Thr	Leu	Leu	Tyr	Ala	Ile	Asn	Gly	Gly	Val	Asp	Glu	Lys	Leu	Lys	
		450				455					460					
Ile	Gln	Val	Gly	Pro	Lys	Thr	Glu	Pro	Leu	Leu	Asp	Glu	Val	Leu	Asp	
465					470					475					480	
Tyr	Asp	Thr	Val	Met	Ala	Ser	Leu	Asp	His	Phe	Met	Asp	Trp	Leu	Ala	
				485					490					495		
Val	Gln	Tyr	Ile	Ser	Ala	Leu	Asn	Leu	Ile	His	Tyr	Met	His	Asp	Lys	
			500					505					510			
Tyr	Ser	Tyr	Glu	Ala	Ser	Leu	Met	Ala	Leu	His	Asp	Arg	Asp	Val	Tyr	
		515					520					525				
Arg	Thr	Met	Ala	Cys	Gly	Ile	Ala	Gly	Leu	Ser	Val	Ala	Ala	Asp	Ser	
		530				535					540					
Leu	Ser	Ala	Ile	Lys	Tyr	Ala	Thr	Val	Lys	Pro	Val	Arg	Asp	His	Thr	
545					550					555					560	
Gly	Leu	Ala	Val	Asp	Phe	Ile	Ile	Glu	Gly	Asp	Tyr	Pro	Gln	Tyr	Gly	
				565					570					575		
Asn	Asn	Asp	Asp	Arg	Val	Asp	Ser	Ile	Ala	Cys	Asp	Leu	Val	Glu	Arg	
			58													

Leu	Thr	Ile	Arg	Val	Ser	Gly	Tyr	Ala	Val	Arg	Phe	Asn	Ala	Leu	Thr
			740					745					750		
Arg	Glu	Gln	Gln	Gln	Asp	Val	Ile	Ser	Arg	Thr	Phe	Thr	Gln	Ala	Met
		755					760					765			

<210> 9725

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 9725

Arg	Arg	Ile	Ala	Gly	Asn	Tyr	Arg	Asn	Tyr	Arg	Ala	Ala	Ala	Leu	Cys
1				5					10					15	
Phe	Ser	Phe	Pro	Arg	Leu	Leu	Met	Arg	Leu	Asn	Lys	Val	Val	Thr	Met
			20					25					30		
Ser	Glu	Gln	Ile	Asn	Pro	Leu	Trp	Asn	His	Phe	Ile	Arg	Ala	Val	Gln
		35					40					45			
Glu	Glu	Val	Lys	Pro	Ala	Leu	Gly	Cys	Thr	Glu	Pro	Val	Ser	Leu	Ala
	50					55					60				
Leu	Ala	Cys	Ala	Met	Ala	Ala	Gly	Gln	Leu	Ser	Gly	Glu	Val	Thr	Arg
65					70					75					80
Ile	Glu	Ala	Trp	Val	Ser	Pro	Asn	Leu	Met	Lys	Asn	Gly	Leu	Gly	Val
				85					90					95	
Thr	Val	Pro	Gly	Thr	Gly	Met	Val	Gly	Leu	Pro	Ile	Ala	Ala	Ala	Leu
			100					105					110		
Gly	Ala	Thr	Gly	Gly	Asn	Ala	His	Ala	Gly	Leu	Glu	Val	Leu	Lys	Asp
		115				120						125			
Ala	Ser	Ala	Glu	Ala	Leu	Thr	Arg	Ala	Lys	Ala	Leu	Leu	Asn	Ala	Gly
	130					135					140				
Leu	Val	Gln	Val	Lys	Leu	Gln	Glu	Pro	Cys	Asp	Glu	Ile	Leu	Tyr	Ser
145					150					155					160
Arg	Ala	Cys	Val	Tyr	Ala	Gly	Glu	Ser	Ser	Ala	Met	Val	Thr	Ile	Ala
				165					170					175	
Gly	Gly	His	Thr	Arg	Val	Val	Glu	Val	Val	Cys	Gln	Gly	Glu	Thr	Cys
			180					185					190		
Phe	Arg	Leu	Asp	Asp	Arg	Gln	Ser	Gln	Asn	Asn	Asp	Asp	Pro	Leu	Ala
		195					200					205			
Val	Leu	Ser	Thr	Thr	Thr	Leu	Ser	Gln	Ile	Leu	Glu	Phe	Val	Glu	Gln
	210					215					220				
Val	Pro	Phe	Asp	Ala	Ile	Arg	Phe	Ile	Leu	Asp	Ala	Gly	Arg	Leu	Asn
225					230					235					240
Asp	Ala	Leu	Ser	Arg	Glu	Gly	Leu	Arg	Gly	Asn	Trp	Gly	Leu	His	Ile
				245					250					255	
Gly	Ala	Thr	Leu	Asn	Lys	Gln	Arg	Ala	Arg	Gly	Trp	Met	Ala	Gln	Asp
			260					265					270		
Leu	Gly	Ser	Asp	Ile	Ile	Ile	Arg	Thr	Ser	Ala	Ala	Ser	Asp	Ala	Arg
		275					280					285			
Met	Gly	Gly	Ala	Thr	Leu	Pro	Ala	Met	Ser	Asn	Ser	Gly	Ser	Gly	Asn
	290					295					300				
Gln	Gly	Ile	Thr	Ala	Thr	Met	Pro	Val	Val	Val	Val	Ala	Glu	His	Val
					310					315				320	
Gln	Ala	Asp	Asp	Glu	Arg	Leu	Ala	Arg	Ala	Leu	Met	Leu	Ser	His	Leu
				325					330					335	
Ser	Ala	Ile	Tyr	Ile	His	Tyr	Gln	Leu	Pro	Arg	Leu	Ser	Ala	Leu	Cys
			340					345					350		
Ala	Ala	Thr	Thr	Ala	Gly	Met	Gly	Ala	Ala	Ala	Gly	Met	Ala	Trp	Leu
		355					360					365			
Met	Gly	Gly	Ser	Tyr	Gln	Thr	Ile	Ala	Met	Ala	Ile	Gly	Ser	Met	Ile
	370					375					380				

Gly Asp Val Ser Gly Met Ile Cys Asp Gly Ala Ser Asn Ser Cys Ala
 385 390 395 400
 Met Lys Val Ser Thr Ser Val Thr Ser Ala Trp Lys Ala Val Met Met
 405 410 415
 Ala Leu Asp Asp Thr Ala Val Thr Gly Asn Glu Gly Ile Val Ala His
 420 425 430
 Asp Val Glu Gln Ser Ile Ser Asn Leu Cys Ala Leu Ala Cys Arg Ser
 435 440 445
 Met Gln Ala Thr Asp Arg Gln Ile Ile Glu Ile Met Ala Ser Lys Val
 450 455 460
 Leu
 465

<210> 9726

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 9726

Arg Tyr Gly Arg Cys Ile Val Ser Gln Ile Phe Cys Leu Val Cys Ser
 1 5 10 15
 Asn Phe Leu Asn Glu Asn Glu Met Ala Lys Glu Arg Ala Leu Thr Leu
 20 25 30
 Glu Ala Leu Arg Val Met Asp Ala Ile Asp Arg Arg Gly Ser Phe Ala
 35 40 45
 Ala Ala Ala Asp Glu Leu Gly Arg Val Pro Ser Ala Leu Ser Tyr Thr
 50 55 60
 Met Gln Lys Leu Glu Glu Glu Leu Asp Val Val Leu Phe Asp Arg Ser
 65 70 75 80
 Gly His Arg Thr Lys Phe Thr Asn Val Gly Arg Met Leu Leu Glu Arg
 85 90 95
 Gly Arg Val Leu Leu Glu Ala Ala Asp Lys Leu Thr Thr Asp Ala Glu
 100 105 110
 Ala Leu Ala Arg Gly Trp Glu Thr His Leu Thr Leu Val Thr Glu Ala
 115 120 125
 Leu Val Pro Thr Glu Ala Leu Phe Pro Leu Val Asp Arg Leu Ala Ala
 130 135 140
 Lys Ala Asn Thr Gln Leu Ser Ile Ile Thr Glu Val Leu Ala Gly Ala
 145 150 155 160
 Trp Glu Arg Leu Glu Thr Gly Arg Ala Asp Ile Val Ile Ala Pro Asp
 165 170 175
 Met His Phe Arg Ser Ser Ser Glu Ile Asn Ser Arg Lys Leu Tyr Ser
 180 185 190
 Val Met Asn Val Tyr Val Ala Ala Pro Asp His Pro Ile His Gln Glu
 195 200 205
 Pro Glu Pro Leu Ser Glu Val Thr Arg Val Lys Tyr Arg Gly Val Ala
 210 215 220
 Val Ala Asp Thr Ala Arg Glu Arg Pro Val Leu Thr Val Gln Leu Leu
 225 230 235 240
 Asp Lys Gln Pro Arg Leu Thr Val Thr Ser Leu Glu Asp Lys Arg Gln
 245 250 255
 Ala Leu Leu Ala Gly Leu Gly Val Ala Thr Met Pro Tyr Pro Phe Val
 260 265 270
 Glu Lys Asp Ile Ala Glu Gly Arg Leu Arg Val Val Ser Pro Glu Tyr
 275 280 285
 Thr Ser Glu Val Asp Ile Ile Met Ala Trp Arg Arg Asp Ser Met Gly
 290 295 300
 Glu Ala Lys Ser Trp Cys Leu Arg Glu Ile Pro Lys Leu Phe Ala His
 305 310 315 320
 His Asn Lys

<210> 9727
 <211> 537
 <212> PRT
 <213> Enterobacter cloacae

<400> 9727

Gln	Arg	Gly	Lys	Leu	Met	Ser	Tyr	Leu	Leu	Ala	Leu	Asp	Ala	Gly	Thr
1			5					10						15	
Gly	Ser	Val	Arg	Ala	Val	Ile	Phe	Asp	Leu	Gln	Gly	Asn	Gln	Ile	Ala
		20						25					30		
Val	Gly	Gln	Ala	Glu	Trp	Lys	His	Leu	Ser	Val	Glu	Asn	Val	Pro	Gly
	35					40					45				
Ser	Met	Glu	Phe	Asp	Leu	Asp	Thr	Asn	Trp	Arg	Leu	Ala	Cys	Arg	Cys
50					55					60					
Ile	Gln	Gln	Ala	Leu	Glu	Arg	Ala	Arg	Leu	Ser	Ala	Ala	Asp	Ile	Gln
65				70					75					80	
Ser	Val	Ala	Cys	Cys	Ser	Met	Arg	Glu	Gly	Ile	Val	Leu	Tyr	Asp	Arg
		85						90					95		
Asn	Gly	Glu	Ala	Ile	Trp	Ala	Cys	Ala	Asn	Val	Asp	Ala	Arg	Ala	Ser
		100						105					110		
Arg	Glu	Val	Ala	Glu	Leu	Lys	Glu	Ile	His	Asp	Tyr	Arg	Phe	Glu	Ser
	115					120					125				
Glu	Val	Tyr	Glu	Val	Ser	Gly	Gln	Thr	Leu	Ala	Leu	Ser	Ala	Met	Pro
	130				135						140				
Arg	Leu	Leu	Trp	Leu	Ala	His	His	Arg	Pro	Asp	Ile	Tyr	Arg	Lys	Ala
145				150					155					160	
Ala	Thr	Ile	Thr	Met	Ile	Ser	Asp	Trp	Leu	Ala	Ala	Lys	Leu	Ser	Gly
			165					170					175		
Glu	Leu	Ala	Val	Asp	Pro	Ser	Asn	Ala	Gly	Thr	Thr	Gly	Met	Leu	Asp
		180						185					190		
Leu	Phe	Ser	Arg	Asp	Trp	Arg	Pro	Ala	Leu	Leu	Asp	Met	Ala	Gly	Leu
	195					200					205				
Arg	Ala	Asp	Ile	Leu	Ser	Pro	Val	Lys	Glu	Thr	Gly	Thr	Val	Leu	Gly
	210				215						220				
Ala	Ile	Thr	Arg	Gln	Ala	Gln	Gln	Cys	Gly	Leu	Arg	Glu	Gly	Thr	
225				230					235					240	
Pro	Val	Val	Met	Gly	Gly	Gly	Asp	Val	Gln	Leu	Gly	Cys	Leu	Gly	Leu
		245						250					255		
Gly	Val	Val	Arg	Ala	Gly	Gln	Thr	Ala	Val	Leu	Gly	Gly	Thr	Phe	Trp
		260					265						270		
Gln	Gln	Val	Val	Asn	Leu	Pro	Gln	Val	Arg	Thr	Asp	Pro	Glu	Met	Asn
	275					280					285				
Ile	Arg	Val	Asn	Pro	His	Val	Ile	Pro	Gly	Met	Ala	Gln	Ala	Glu	Ser
	290				295					300					
Ile	Ser	Phe	Phe	Thr	Gly	Leu	Thr	Met	Arg	Trp	Phe	Arg	Asp	Ala	Phe
305				310					315					320	
Cys	Ala	Glu	Glu	Lys	Leu	Ile	Ala	Glu	Arg	Met	Gly	Met	Asp	Thr	Tyr
		325						330					335		
Ser	Leu	Leu	Glu	Glu	Met	Ala	Ser	Arg	Val	Pro	Ala	Gly	Ser	His	Gly
	340						345					350			
Val	Met	Pro	Ile	Phe	Ser	Asp	Ala	Met	His	Phe	Lys	Gln	Trp	Tyr	His
	355					360					365				
Ala	Ala	Pro	Ser	Phe	Ile	Asn	Leu	Ser	Ile	Asp	Pro	Glu	Lys	Cys	Asn
	370					375					380				
Lys	Ala	Thr	Leu	Phe	Arg	Ala	Leu	Glu	Glu	Asn	Ala	Ala	Ile	Val	Ser
385				390					395					400	
Ala	Cys	Asn	Leu	Ala	Gln	Ile	Ser	Arg	Phe	Ser	Gly	Val	Thr	Phe	Glu
		405						410					415		
Ser	Leu	Val	Phe	Ala	Gly	Gly	Gly	Ala	Lys	Gly	Ala	Leu	Trp	Ser	Gln
		420					425						430		

Ile Leu Ser Asp Val Thr Gly Leu Pro Val Arg Val Pro Glu Val Lys
 435 440 445
 Glu Ala Thr Ala Leu Gly Cys Ala Leu Ala Ala Gly Ala Gly
 450 455 460
 Leu Phe Ala Asp Met Ala Ser Thr Gly Glu Arg Leu Val Lys Trp Ser
 465 470 475 480
 Arg Glu Phe Thr Pro Asn Pro Gln His Arg Glu Leu Tyr Asp Gly Met
 485 490 495
 Met Gln Lys Trp Gln Ala Val Tyr Ala Asp Gln Leu Gly Leu Val Asp
 500 505 510
 Ser Gly Leu Thr Thr Ser Met Trp Gln Ala Pro Gly Leu Val Arg Ala
 515 520 525
 Ser Pro Ser Pro Arg Pro Ser Pro
 530 535

<210> 9728

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 9728

Thr Phe Met Ile Arg Phe Ala Val Ile Gly Thr Asn Trp Ile Thr Arg
 1 5 10 15
 Gln Phe Val Asp Ala Ala His Glu Thr Gly Lys Tyr Lys Leu Thr Ala
 20 25 30
 Val Tyr Ser Arg Ser Leu Glu Gln Ala Gln Ser Phe Ala Asn Asp Tyr
 35 40 45
 Leu Val Glu His Leu Phe Thr Ser Leu Asp Glu Met Ala Gln Ser Asp
 50 55 60
 Ala Ile Asp Ala Val Tyr Ile Ala Ser Pro Asn Ser Leu His Phe Pro
 65 70 75 80
 Gln Thr Lys Leu Phe Leu Ser His Lys Lys His Val Ile Cys Glu Lys
 85 90 95
 Pro Leu Ala Ser Asn Ile Glu Glu Val Glu Ala Ala Ile Ala Leu Ala
 100 105 110
 Arg Glu Asn Gln Val Val Leu Phe Glu Ala Phe Lys Thr Ala Ser Leu
 115 120 125
 Pro Asn Phe Leu Leu Leu Gln Gln Ser Leu Pro Lys Ile Gly Lys Val
 130 135 140
 Arg Lys Ala Phe Ile Asn Tyr Cys Gln Tyr Ser Ser Arg Tyr Gln Arg
 145 150 155 160
 Tyr Leu Asp Gly Glu Asn Pro Asn Thr Phe Asn Pro Ala Phe Ser Asn
 165 170 175
 Gly Ser Ile Met Asp Ile Gly Phe Tyr Cys Leu Ala Ser Ala Val Ala
 180 185 190
 Leu Trp Gly Glu Pro His Gly Val Thr Ala Thr Ala Ser Leu Leu Glu
 195 200 205
 Ser Gly Val Asp Ala His Gly Val Val Val Leu Asp Tyr Gly Asp Phe
 210 215 220
 Ser Val Thr Leu Gln His Ser Lys Val Ser Asp Ser Val Leu Pro Ser
 225 230 235 240
 Glu Ile Gln Gly Glu Asp Gly Ser Leu Val Ile Glu Lys Ile Ser Glu
 245 250 255
 Cys Gln Lys Leu Ser Ile Val Pro Arg Gly Gly Lys Ala Gln Glu Leu
 260 265 270
 Thr Gln Pro Gln His Ile Asn Thr Met Leu Tyr Glu Ala Glu Val Phe
 275 280 285
 Ala Arg Leu Val Glu Asp Asn Glu Val Asn His Pro Gly Leu Ala Ile
 290 295 300
 Ser Arg Thr Thr Ala Lys Leu Gln Thr Glu Ile Arg Arg Gln Thr Gly
 305 310 315 320

<210> 9730
 <211> 449
 <212> PRT
 <213> Enterobacter cloacae

<400> 9730

Val	Val	Ala	Val	Ser	Arg	His	Gly	Asn	Asn	Ile	Thr	Met	Arg	Phe	Tyr
1			5					10						15	
Met	Arg	Lys	Ile	Lys	Gly	Leu	Arg	Trp	Tyr	Met	Ile	Ala	Leu	Val	Thr
		20						25					30		
Leu	Gly	Thr	Val	Leu	Gly	Tyr	Leu	Thr	Arg	Asn	Thr	Val	Ala	Ala	Ala
		35					40					45			
Ala	Pro	Thr	Leu	Met	Glu	Glu	Leu	His	Ile	Ser	Thr	Gln	Gln	Tyr	Ser
	50					55					60				
Tyr	Ile	Ile	Ala	Ala	Tyr	Ser	Ala	Ala	Tyr	Thr	Val	Met	Gln	Pro	Val
65					70					75				80	
Ala	Gly	Tyr	Val	Leu	Asp	Ile	Leu	Gly	Thr	Lys	Ile	Gly	Tyr	Ala	Phe
			85						90					95	
Phe	Ala	Val	Ala	Trp	Ala	Val	Phe	Cys	Gly	Ala	Thr	Ala	Leu	Ala	Gly
			100					105					110		
Ser	Trp	Gly	Gly	Leu	Ala	Leu	Ala	Arg	Gly	Ala	Val	Gly	Ala	Ala	Glu
		115					120					125			
Ala	Ala	Met	Ile	Pro	Ala	Gly	Leu	Lys	Ala	Ser	Ser	Glu	Trp	Phe	Pro
	130					135						140			
Ala	Lys	Glu	Arg	Ser	Ile	Ala	Val	Gly	Tyr	Phe	Asn	Val	Gly	Ser	Ser
145					150					155					160
Ile	Gly	Ala	Met	Ile	Ala	Pro	Pro	Leu	Val	Val	Trp	Ala	Ile	Val	Met
			165							170				175	
His	Ser	Trp	Gln	Met	Ala	Phe	Ile	Ile	Ser	Gly	Val	Leu	Ser	Phe	Ala
			180					185					190		
Trp	Ala	Met	Ala	Trp	Leu	Ile	Phe	Tyr	Lys	His	Pro	Arg	Asp	Gln	Lys
		195					200					205			
Lys	Leu	Ser	Asp	Glu	Glu	Arg	Asp	Tyr	Ile	Ile	Asn	Gly	Gln	Glu	Ser
	210					215					220				
Gln	His	Gln	Thr	Asp	Asn	Gly	Lys	Lys	Met	Ser	Val	Trp	Gln	Ile	Leu
225					230					235					240
Gly	Thr	Arg	Gln	Phe	Trp	Gly	Ile	Ala	Leu	Pro	Arg	Phe	Leu	Ala	Glu
			245						250				255		
Pro	Ala	Trp	Gly	Thr	Phe	Asn	Ala	Trp	Ile	Pro	Leu	Phe	Met	Phe	Lys
			260					265					270		
Val	Tyr	Gly	Phe	Asn	Leu	Lys	Glu	Ile	Ala	Met	Phe	Ala	Trp	Met	Pro
		275					280					285			
Met	Leu	Phe	Ala	Asp	Leu	Gly	Cys	Ile	Val	Gly	Gly	Tyr	Leu	Pro	Pro
	290					295					300				
Leu	Phe	Gln	Arg	Trp	Phe	Gly	Val	Asn	Leu	Ile	Val	Ser	Arg	Lys	Met
305					310					315					320
Val	Val	Thr	Met	Gly	Ala	Leu	Leu	Met	Ile	Gly	Pro	Gly	Met	Ile	Gly
			325						330					335	
Leu	Phe	Thr	Ser	Pro	Tyr	Val	Ala	Ile	Ala	Leu	Leu	Cys	Ile	Gly	Gly
			340				345						350		
Phe	Ala	His	Gln	Ser	Leu	Ser	Gly	Ala	Leu	Ile	Thr	Leu	Ser	Ser	Asp
		355					360					365			
Val	Phe	Gly	Arg	Asn	Glu	Val	Ala	Thr	Ala	Asn	Gly	Leu	Thr	Gly	Met
	370					375					380				
Ala	Ala	Trp	Thr	Ala	Ser	Thr	Leu	Phe	Ala	Leu	Val	Val	Gly	Ala	Leu
385					390					395					400
Ala	Asp	Thr	Ile	Gly	Phe	Ser	Pro	Leu	Phe	Ala	Val	Leu	Ala	Val	Phe
			405						410					415	
Asp	Leu	Leu	Gly	Ala	Val	Val	Ile	Trp	Thr	Val	Leu	Lys	Ser	Lys	Ser
			420					425					430		

Ala Asp Glu Leu Ala Lys Glu Ser Leu Gly Gly Pro Ala Thr Gln Ser
 435 440 445

<210> 9731

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 9731

Phe Trp Asn Thr Ala Tyr Ala Val Thr Gln Trp Lys Val Ser Ile Met
 1 5 10 15
 Lys Tyr Arg Ile Thr Leu Ala Leu Ala Leu Phe Ser Leu Ser Thr Ala
 20 25 30
 Ser Phe Ala Met Ser Leu Cys Gln Glu Lys Glu Gln Asp Ile Gln Arg
 35 40 45
 Glu Ile Ser Tyr Ala Glu Lys His Asn Asn Gln His Arg Ile Asp Gly
 50 55 60
 Leu Lys Lys Ala Leu Ser Glu Val Lys Asp Asn Cys Thr Asp Ser Lys
 65 70 75 80
 Leu Arg Ala Asp His Gln Glu Lys Ile Ala Glu Gln Lys Asp Glu Ile
 85 90 95
 Ala Glu Arg Arg Gln Asp Leu Gln Glu Ala Lys Glu Lys Gly Asp Ala
 100 105 110
 Glu Lys Ile Ala Lys Arg Glu Arg Lys Leu Gln Glu Ala Gln Asp Glu
 115 120 125
 Leu Lys Ala Leu Glu Ala Arg Asp Tyr
 130 135

<210> 9732

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 9732

Val Val Ser Asp Lys Ala Glu Arg Gln Lys Arg Lys Ala Tyr Leu Leu
 1 5 10 15
 Ser Gln Ile Gln Gln Gln Arg Leu Asp Leu Ser Ala Ser Arg Arg Asp
 20 25 30
 Trp Val Glu Ala Thr His Arg Phe Asp Arg Gly Trp Asn Thr Val Leu
 35 40 45
 Ser Leu Arg Ser Trp Ala Leu Val Gly Ser Ser Val Met Ala Ile Trp
 50 55 60
 Ser Val Arg His Pro Asn Met Leu Ile Arg Trp Ala Arg Arg Gly Phe
 65 70 75 80
 Gly Ala Trp Ser Ala Trp Arg Leu Val Lys Thr Thr Leu Arg Gln Gln
 85 90 95
 Gln Leu Arg
 100

<210> 9733

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 9733

Arg Glu Val Lys Phe Met Ile Thr Thr Arg Thr Ala Lys Gln Cys Gly
 1 5 10 15
 Gln Ala Asp Phe Gly Trp Leu Gln Ala Arg Tyr Thr Phe Ser Phe Gly
 20 25 30

His Tyr Phe Asp Pro Lys Leu Leu Gly Tyr Ala Ser Leu Arg Val Leu
 35 40 45
 Asn Gln Glu Val Leu Ala Pro Gly Ala Ser Phe Gln Pro Arg Thr Tyr
 50 55 60
 Pro Lys Val Asp Ile Leu Asn Leu Ile Leu Glu Gly Glu Ala Glu Tyr
 65 70 75 80
 Arg Asp Ser Glu Gly Asn His Val Gln Ala Lys Ala Gly Glu Ala Leu
 85 90 95
 Leu Ile Ser Thr Gln Pro Gly Ile Ser Tyr Ser Glu His Asn Leu Ser
 100 105 110
 Lys Asp Lys Thr Leu Thr Arg Met Gln Leu Trp Leu Asp Ala Cys Pro
 115 120 125
 Glu Arg Glu Asn Pro Leu Val Gln Lys Ile Asp Leu Lys Gly Asp Gln
 130 135 140
 Gln Gln Leu Ile Ala Ser Pro Asp Gly Ser Lys Gly Ser Leu Gln Leu
 145 150 155 160
 Arg Gln Gln Val Trp Leu His His Ile Glu Leu Lys Lys Gly Glu Gln
 165 170 175
 Ala Ser Phe Gln Leu His Gly Pro Arg Ala Tyr Leu Gln Ser Ile His
 180 185 190
 Gly Thr Val His Ala Val Thr His Thr Glu Glu Lys Glu Ala Leu Thr
 195 200 205
 Cys Gly Asp Gly Ala Phe Ile Arg Asp Glu Ala Asn Ile Thr Leu Val
 210 215 220
 Ala Asp Thr Pro Leu Arg Ala Leu Leu Ile Asp Leu Pro Val
 225 230 235

<210> 9734

<211> 525

<212> PRT

<213> Enterobacter cloacae

<400> 9734

Thr Met Ala Asp Ile Glu Ile Arg Gln Ala Ser Pro Thr Ala Phe Tyr
 1 5 10 15
 Ile Lys Val His Asp Thr Asp Asn Val Ala Ile Ile Val Asn Asp Asn
 20 25 30
 Gly Leu Lys Ala Gly Thr Arg Phe Pro Asp Gly Leu Glu Leu Ile Glu
 35 40 45
 His Ile Pro Gln Gly His Lys Val Ala Leu Val Asp Ile Pro Ala His
 50 55 60
 Gly Glu Ile Val Arg Tyr Gly Glu Val Ile Gly Tyr Ala Val Arg Ala
 65 70 75 80
 Ile Pro Gln Gly Ser Trp Ile Glu Glu Ser Leu Val Glu Leu Pro Thr
 85 90 95
 Ala Pro Pro Leu Glu Thr Leu Pro Leu Ala Thr Arg Val Pro Glu Pro
 100 105 110
 Leu Pro Pro Leu Glu Gly Tyr Thr Phe Glu Gly Tyr Arg Asn Ala Asp
 115 120 125
 Gly Ser Val Gly Thr Lys Asn Leu Leu Gly Ile Thr Thr Ser Val His
 130 135 140
 Cys Val Ala Gly Val Val Asp Tyr Val Val Lys Ile Ile Glu Arg Asp
 145 150 155 160
 Leu Leu Pro Lys Tyr Pro Asn Val Asp Gly Val Val Gly Leu Asn His
 165 170 175
 Leu Tyr Gly Cys Gly Val Ala Ile Asn Ala Pro Ala Val Val Pro
 180 185 190
 Ile Arg Thr Ile His Asn Ile Ala Leu Asn Pro Asn Phe Gly Gly Glu
 195 200 205
 Val Met Val Ile Gly Leu Gly Cys Glu Lys Leu Gln Pro Glu Arg Leu
 210 215 220

Leu Gln Gly Thr Glu Asp Val Lys Ala Ile Pro Val Asp Asp Ala Ser
 225 230 235 240
 Val Val Arg Leu Gln Asp Glu His His Val Gly Phe Arg Ser Met Val
 245 250 255
 Asp Asp Ile Leu Gln Val Ala Glu Arg His Leu Glu Lys Leu Asn Lys
 260 265 270
 Arg Gln Arg Glu Thr Cys Pro Ala Ser Glu Leu Val Val Gly Thr Gln
 275 280 285
 Cys Gly Gly Ser Asp Ala Phe Ser Gly Val Thr Ala Asn Pro Ala Val
 290 295 300
 Gly Tyr Ala Ser Asp Leu Phe Val Arg Cys Gly Ala Thr Val Met Phe
 305 310 315 320
 Ser Glu Val Thr Glu Val Arg Asp Ala Ile His Leu Leu Thr Pro Arg
 325 330 335
 Ala Val Asn Glu Glu Val Gly Lys Arg Leu Leu Glu Glu Met Ala Trp
 340 345 350
 Tyr Asp Asn Tyr Leu Asp Met Gly Lys Thr Asp Arg Ser Ala Asn Pro
 355 360 365
 Ser Pro Gly Asn Lys Lys Gly Gly Leu Ala Asn Val Val Glu Lys Ala
 370 375 380
 Leu Gly Ser Ile Ala Lys Ser Gly Gln Ser Ala Ile Val Glu Val Leu
 385 390 395 400
 Ser Pro Gly Gln Arg Pro Thr Lys Arg Gly Leu Ile Tyr Ala Ala Thr
 405 410 415
 Pro Ala Ser Asp Phe Val Cys Gly Thr Gln Gln Val Ala Ser Gly Ile
 420 425 430
 Thr Val Gln Val Phe Thr Thr Gly Arg Gly Thr Pro Tyr Gly Leu Met
 435 440 445
 Ala Val Pro Val Ile Lys Met Ala Thr Arg Thr Glu Leu Ala Asn Arg
 450 455 460
 Trp Tyr Asp Leu Met Asp Ile Asn Ala Gly Thr Ile Ala Thr Gly Glu
 465 470 475 480
 Glu Ser Ile Glu Glu Val Gly Trp Lys Leu Phe His Phe Ile Leu Asp
 485 490 495
 Val Ala Ser Gly Arg Lys Lys Thr Phe Ser Asp Gln Trp Gly Leu His
 500 505 510
 Asn Ser Leu Ala Val Phe Asn Pro Ala Pro Val Thr
 515 520 525

<210> 9735

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 9735

Met Pro Thr Pro Ser Glu Met Glu Arg Lys Val Lys His Leu Thr Glu
 1 5 10 15
 Met Val Glu Gln His Lys Arg Gly Asn Thr Asn Gly Ile Tyr Ala Val
 20 25 30
 Cys Ser Ala His Pro Leu Val Leu Glu Ala Ala Ile Arg Tyr Ala His
 35 40 45
 Ser Gln Gln Thr Pro Leu Leu Ile Glu Ala Thr Ser Asn Gln Val Asp
 50 55 60
 Gln Phe Gly Gly Tyr Thr Gly Met Thr Pro Ala Asp Phe Tyr Gly Phe
 65 70 75 80
 Val Cys Lys Leu Ala Gly Ser Leu Gly Phe Pro Thr Ser Gln Leu Ile
 85 90 95
 Leu Gly Gly Asp His Leu Gly Pro Asn Arg Trp Gln Asn Leu Pro Ala
 100 105 110
 Leu Gln Ala Met Ala Asn Ala Asp Asp Leu Ile Arg Ser Tyr Val Ala
 115 120 125

Ala Gly Phe Lys Lys Ile His Leu Asp Cys Ser Met Ser Cys Glu Asp
 130 135 140
 Asp Pro Val Pro Leu Thr Asp Ala Ile Val Ala Gly Arg Ala Ala Arg
 145 150 155 160
 Leu Ala Lys Ile Ala Glu Thr Thr Cys Leu Glu Gln Phe Gly Val Ala
 165 170 175
 Asp Leu Val Tyr Val Ile Gly Thr Glu Val Pro Val Pro Gly Gly Ala
 180 185 190
 His Glu Thr Leu Thr Glu Leu Glu Val Thr Thr Pro Glu Ala Ala Arg
 195 200 205
 Ala Thr Leu Glu Ala His Arg His Ala Phe Glu Lys Glu Gly Leu Ser
 210 215 220
 Asp Ile Trp Pro Arg Ile Ile Gly Leu Val Val Gln Pro Gly Val Glu
 225 230 235 240
 Phe Asp His Ala His Val Cys Asp Tyr Gln Pro His Lys Ala Val Ala
 245 250 255
 Leu Ser Lys Met Val Glu Ala Tyr Asp Thr Leu Val Phe Glu Ala His
 260 265 270
 Ser Thr Asp Tyr Gln Thr Pro Gln Ala Leu Arg Gln Leu Val Lys Asp
 275 280 285
 His Phe Ala Ile Leu Lys Val Gly Pro Ala Leu Thr Phe Ala Leu Arg
 290 295 300
 Glu Ala Leu Phe Ser Leu Ala Ala Ile Glu Glu Leu Leu Pro Ala
 305 310 315 320
 Lys Ala Cys Ser Gly Leu Arg His Val Leu Glu Asn Val Met Leu Asp
 325 330 335
 Arg Pro Glu Tyr Trp Gln Ser His Tyr His Gly Asp Gly Asn Ala Arg
 340 345 350
 Arg Leu Ala Arg Gly Tyr Ser Tyr Ser Asp Arg Val Arg Tyr Tyr Trp
 355 360 365
 Pro Asp Ser Gln Ile Asp Asp Ala Phe Glu Arg Leu Val Arg Asn Leu
 370 375 380
 Ala Asp Glu Pro Ile Pro Leu Pro Leu Ile Ser Gln Tyr Leu Pro Leu
 385 390 395 400
 Gln Tyr Ser Lys Val Arg Asp Gly Ala Leu Ser Ser Thr Pro Arg Glu
 405 410 415
 Leu Ile Leu Asp His Ile Gln Asp Ile Leu His Gln Tyr His Ala Ala
 420 425 430
 Cys Glu Gly Val Thr Thr Gln His Ala
 435 440

<210> 9736

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 9736

Ser Thr Cys Cys Ala Asn Arg Leu Asn Pro Arg Arg Leu Arg Pro Arg
 1 5 10 15
 Lys Arg Asn Leu Lys Met Ala Ser Asn His Thr Thr Leu Pro Gly Val
 20 25 30
 Ser Glu Ser Glu Glu Thr Leu Leu Thr Gly Val Asn Glu Asn Val Tyr
 35 40 45
 Glu Asp Gln Ser Ile Gly Ala Glu Leu Thr Lys Lys Asp Ile Asn Arg
 50 55 60
 Val Ala Trp Arg Ser Met Leu Leu Gln Ala Ser Phe Asn Tyr Glu Arg
 65 70 75 80
 Met Gln Ala Ser Gly Trp Leu Tyr Gly Leu Leu Pro Ala Leu Lys Lys
 85 90 95
 Ile His Thr Asn Lys Arg Asp Leu Ala Arg Ala Met Lys Gly His Met
 100 105 110

Gly Phe Phe Asn Thr His Pro Phe Leu Val Thr Phe Val Ile Gly Ile
 115 120 125
 Ile Leu Ala Met Glu Arg Ser Lys Gln Asp Val Asn Ser Ile Gln Ser
 130 135 140
 Thr Lys Ile Ala Val Gly Ala Pro Leu Gly Gly Ile Gly Asp Ala Met
 145 150 155 160
 Phe Trp Leu Thr Leu Leu Pro Ile Cys Gly Gly Ile Gly Ala Ser Leu
 165 170 175
 Ala Leu Gln Gly Ser Ile Leu Gly Ala Val Val Phe Ile Val Leu Phe
 180 185 190
 Asn Val Val His Leu Gly Leu Arg Phe Gly Leu Ala His Tyr Ala Tyr
 195 200 205
 Arg Met Gly Val Ala Ala Ile Pro Leu Ile Lys Ala Asn Thr Lys Lys
 210 215 220
 Val Gly His Ala Ala Ser Ile Val Gly Met Thr Val Ile Gly Ala Leu
 225 230 235 240
 Val Ala Thr Tyr Val Arg Leu Asn Thr Thr Leu Glu Ile Lys Ala Gly
 245 250 255
 Asp Ala Val Val Lys Leu Gln Thr Asp Val Ile Asp Lys Leu Met Pro
 260 265 270
 Ala Phe Leu Pro Leu Val Tyr Thr Leu Ile Met Phe Trp Leu Val Arg
 275 280 285
 Arg Gly Trp Ser Pro Leu Arg Leu Ile Gly Ile Thr Val Val Leu Gly
 290 295 300
 Val Val Gly Lys Phe Cys His Phe Leu
 305 310

<210> 9737

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 9737

Ser Val Leu Ser Arg Gly Ser His Phe His Val Ala Pro Ser Arg Thr
 1 5 10 15
 Tyr Asp Leu Asn Phe Tyr Lys Ser Ser Ile Met Ser Asp Lys Arg Thr
 20 25 30
 Ala Glu Glu Gly Arg Phe Ala Gly Leu Ala Leu Ala Glu Glu Glu Leu
 35 40 45
 Val Ala Arg Val Ala Trp Cys Tyr Tyr His Asp Gly Leu Thr Gln Asn
 50 55 60
 Asp Ile Gly Glu Arg Leu Gly Leu Pro Arg Leu Lys Ile Ser Arg Leu
 65 70 75 80
 Leu Glu Lys Gly Arg Gln Ser Gly Val Ile Arg Val Gln Ile Asn Ser
 85 90 95
 Arg Tyr Glu Gly Cys Leu Ala Leu Glu Thr Glu Leu Gln Gln Arg Phe
 100 105 110
 Gly Leu Lys Leu Val Arg Val Met Pro Ala Leu Asn Thr Pro Pro Met
 115 120 125
 Asn Val Arg Leu Gly Ile Gly Ala Ala Gln Ser Leu Met Gly Val Leu
 130 135 140
 Glu Pro Gly Gln Leu Leu Ala Val Gly Phe Gly Glu Thr Thr Met Ser
 145 150 155 160
 Ser Leu Gln His Leu Ser Gly Phe Ile Ser Ser Gln Gln Ile Arg Leu
 165 170 175
 Val Thr Leu Ser Gly Gly Val Gly Pro Tyr Met Thr Gly Ile Gly Gln
 180 185 190
 Leu Asp Ala Ala Cys Ser Val Ser Met Ile Pro Ala Pro Leu Arg Val
 195 200 205
 Ser Ser Ala Glu Val Ala Gly Ile Leu Lys Arg Glu Thr Ser Val Arg
 210 215 220

Asp Val Ile Leu Ala Ala Thr Ala Ala Asp Val Ala Val Val Gly Ile
 225 230 235 240
 Gly Ser Val Asn Gln Arg Arg Asp Ala Thr Ile Leu Arg Ser Gly Tyr
 245 250 255
 Ile Ser Glu Gly Glu Gln Leu Met Tyr Ala Arg Lys Gly Ala Val Gly
 260 265 270
 Asp Ile Leu Gly Tyr Phe Leu Asn Ala Glu Gly Glu Cys Val Glu Glu
 275 280 285
 Leu Glu Ile His Lys Glu Leu Leu Gly Val Thr Leu Asp Glu Leu Ala
 290 295 300
 Gln Leu Pro Thr Ile Val Gly Val Ala Gly Gly Glu Lys Ala Asp
 305 310 315 320
 Ala Ile Tyr Ala Ala Leu Lys Gly Arg Arg Ile Asn Gly Leu Val Thr
 325 330 335
 Glu Glu Thr Thr Ala Arg Ala Val Leu Ala Leu Ala Gly 350
 340 345

<210> 9738

<211> 688

<212> PRT

<213> Enterobacter cloacae

<400> 9738

Leu Ile Arg Pro His Asn Asn Asn Phe Thr Leu Glu Glu Thr Met Ser
 1 5 10 15
 Arg Tyr Pro Ser Leu Phe Ala Pro Leu Asp Leu Gly Phe Thr Thr Leu
 20 25 30
 Lys Asn Arg Val Leu Met Gly Ser Met His Thr Gly Leu Glu Glu Arg
 35 40 45
 Pro Asp Gly Ala Glu Arg Leu Ala Ala Phe Tyr Ala Glu Arg Ala Arg
 50 55 60
 His Gly Val Ala Leu Ile Val Thr Gly Gly Val Ala Pro Ala Pro Ser
 65 70 75 80
 Gly Val Thr Met Glu Gly Gly Ala Val Leu Asn Asp Ala Ser Gln Leu
 85 90 95
 Ser His His Arg Ile Val Thr Asp Ala Val His Arg Glu Gly Lys
 100 105 110
 Ile Ala Leu Gln Ile Leu His Thr Gly Arg Tyr Ser Tyr Gln Pro Asn
 115 120 125
 Leu Val Ala Pro Ser Ala Ile Gln Ala Pro Ile Asn Arg Phe Thr Pro
 130 135 140
 His Ala Leu Ser His Asp Glu Ile Leu Ala Leu Ile Asp Asp Phe Ala
 145 150 155 160
 Arg Cys Ala Ala Leu Ala Arg Glu Ala Gly Tyr Asp Gly Val Glu Val
 165 170 175
 Met Gly Ser Glu Gly Tyr Leu Ile Asn Glu Phe Leu Ala Ala Arg Thr
 180 185 190
 Asn Gln Arg Asp Asp Glu Trp Gly Gly Asp Tyr Ala Arg Arg Met Arg
 195 200 205
 Phe Ala Val Glu Val Val Arg Ala Val Arg Glu Arg Ala Gly Ala Asp
 210 215 220
 Phe Ile Ile Ile Phe Arg Leu Ser Met Leu Asp Leu Val Glu Gly Gly
 225 230 235 240
 Gly Thr Phe Asp Glu Thr Val Gln Leu Ala Gln Ala Ile Glu Ala Ala
 245 250 255
 Gly Ala Thr Ile Ile Asn Thr Gly Ile Gly Trp His Glu Ala Arg Ile
 260 265 270
 Pro Thr Ile Ala Thr Pro Val Pro Arg Ala Ala Phe Ser Trp Val Thr
 275 280 285
 Arg Lys Leu Lys Gly Lys Val Ser Val Pro Leu Val Thr Thr Asn Arg
 290 295 300

```

Ile Asn Asp Pro Gln Val Ala Asp Asp Val Ile Ser Arg Gly Asp Ala
305          310          315          320
Asp Met Val Ser Met Ala Arg Pro Phe Leu Ala Asp Ala Glu Leu Leu
          325          330          335
Ser Lys Ala Gln Ser Gly Arg Ala Asp Glu Ile Asn Thr Cys Ile Gly
          340          345          350
Cys Asn Gln Ala Cys Leu Asp Gln Ile Phe Ala Gly Lys Val Thr Ser
          355          360          365
Cys Leu Val Asn Pro Arg Ala Cys His Glu Thr Lys Met Pro Val Val
370          375          380
Thr Thr Val Asn Lys Lys Arg Leu Ala Val Val Gly Ala Gly Pro Ala
385          390          395
Gly Leu Ala Phe Ala Val Asn Ala Ala Ser Arg Gly His Gly Val Thr
          405          410          415
Leu Phe Asp Ala Gln Gly Glu Ile Gly Gly Gln Phe Asn Ile Ala Lys
          420          425          430
Gln Ile Pro Gly Lys Asp Glu Phe Tyr Glu Thr Leu Arg Tyr Tyr Arg
          435          440          445
Arg Met Ile Glu Val Thr Gly Val Asp Leu Arg Leu Asn Gln Phe Val
          450          455          460
Ser Ala Ala Asp Leu Ile Gly Phe Asp Glu Val Ile Leu Ala Ser Gly
465          470          475
Ile Ala Pro Arg Thr Pro Ala Ile Glu Gly Ile Asp His Pro Lys Val
          485          490          495
Leu Ser Tyr Leu Asp Val Leu Arg Asp Lys Ala Pro Val Gly Glu Lys
500          505          510
Val Ala Ile Ile Gly Cys Gly Gly Ile Gly Phe Asp Thr Ala Met Tyr
515          520          525
Leu Ser Gln Pro Gly Glu Ala Thr Ser Gln Asn Ile Ala Glu Phe Cys
530          535          540
Val Glu Trp Gly Ile Asp Thr Ser Leu Ser Gln Ser Gly Gly Leu Arg
545          550          555
Pro Glu Gly Pro Gln Leu Pro Lys Ser Pro Arg Gln Ile Val Met Leu
          565          570          575
Gln Arg Lys Ala Ser Lys Pro Gly Glu Gly Leu Gly Lys Thr Thr Gly
580          585          590
Trp Ile His Arg Ala Thr Leu Leu Ser Arg Gly Val Lys Met Ile Pro
595          600          605
Ala Val Ser Tyr Gln Lys Ile Asp Asp Asp Gly Leu His Val Leu Ile
610          615          620
Gly Gly Glu Pro Gln Leu Leu Arg Val Asp His Val Ile Leu Cys Ala
625          630          635
Gly Gln Glu Pro Lys Arg Asp Leu Ala Asp Pro Leu Arg Glu Ala Gly
          645          650          655
Lys Thr Val His Leu Ile Gly Gly Cys Asp Val Ala Met Glu Leu Asp
660          665          670
Ala Arg Arg Ala Ile Ala Gln Gly Thr Gln Leu Ala Leu Val Ile
675          680          685

```

<210> 9739

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 9739

```

Asn Ala Gly Leu Tyr Glu Ile Arg Arg Pro Thr Asp Val Leu Pro Asp
1          5          10          15
Ala Ala Ala Arg Arg Ser Ala Gly Val Trp Pro Gly Arg Val Pro Gly
20          25          30
Arg Thr Val Glu Glu Glu Ile Arg Gly Gln Gly Leu Thr Met Val Ile
35          40          45

```


Ser Pro Leu Ala Leu Arg Arg Phe Ser Tyr Ala Ile Val Ala Leu Met
 50 55 60
 Met Phe Ser Ala Leu Ile Leu Leu Trp Ser Ala Leu Gln His Gln Glu
 65 70 75 80
 Ser Thr Leu Ala Ile Arg Pro Val Ser Gln Gly Thr Ser Val Pro Asp
 85 90 95
 Gly Phe Ser Ile Trp His His Leu Asp Ala Asn Gly Ile Arg Phe Lys
 100 105 110
 Ser Ile Thr Pro Gln Asn Asp Val Leu Leu Ile Lys Phe Asp Ser Ser
 115 120 125
 Ala Gln Ser Ala Ala Ala Lys Ala Val Leu Asp Arg Thr Leu Pro Gln
 130 135 140
 Gly Tyr Ile Ile Ala Gln Gln Asp Asp Ser His Val Ala Ser Trp
 145 150 155 160
 Met Ser Arg Leu Arg Asp Thr Ser His Arg Phe Gly
 165 170

<210> 9740

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 9740

Ser Leu Asp Gly Cys Gly Tyr Trp Arg Arg Ser Gly Cys Gly Ala Gly
 1 5 10 15
 Cys Pro Ala Asp Ala Ser Leu Ile Met Glu Asp Pro Arg His Ala Gln
 20 25 30
 Gly Pro Ala Lys Asn Val Leu Gly Ile Gly Gln Arg Ile Leu Thr Thr
 35 40 45
 Leu Val Gly Ile Ala Glu Thr Arg Val Arg Leu Ala Val Val Glu Leu
 50 55 60
 Glu Glu Glu Lys Ala Asn Leu Phe Gln Met Leu Leu Met Leu Gly Leu
 65 70 75 80
 Thr Met Leu Phe Ala Ala Phe Gly Leu Met Ser Leu Met Val Leu Ile
 85 90 95
 Ile Trp Ala Ile Asp Pro Gln Tyr Arg Leu Asn Ala Met Ile Ala Thr
 100 105 110
 Thr Val Val Leu Leu Val Ala Ala Leu Ile Gly Gly Ile Trp Thr Leu
 115 120 125
 His Lys Ala Arg Thr Ser Thr Phe Leu Arg His Thr Arg Gln Glu Leu
 130 135 140
 Ala Asn Asp Arg Ala Leu Leu Glu Asp Asp Lys Ser
 145 150 155

<210> 9741

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 9741

Cys Gly Ser Leu Glu Ser Lys Met Lys Lys Leu Glu Asp Val Gly Val
 1 5 10 15
 Leu Val Ala Arg Ile Leu Met Pro Ile Leu Phe Ile Thr Ala Gly Trp
 20 25 30
 Gly Lys Ile Thr Gly Tyr Ala Gly Thr Gln Gln Tyr Met Glu Ala Met
 35 40 45
 Gly Val Pro Gly Phe Leu Leu Pro Leu Thr Ile Leu Leu Glu Phe Gly
 50 55 60
 Gly Gly Leu Ala Val Leu Phe Gly Phe Leu Thr Arg Thr Thr Ala Leu
 65 70 75 80
 Phe Thr Ala Gly Phe Thr Leu Leu Thr Ala Phe Ile Phe His Ser Asn

```
<210> 9742
<211> 353
<212> PRT
<213> Enterobacter cloacae
```

<400> 9742																
Ala	Gly	Tyr	Thr	Asp	Tyr	Ile	Gln	Ser	Glu	Glu	Thr	Ser	Pro	Arg	Phe	
1				5					10					15		
Cys	Tyr	Leu	Thr	Glu	Glu	Lys	Lys	Met	Gly	Gln	Leu	Val	Asp	Gly	Val	
			20					25					30			
Trp	Gln	Asp	Val	Trp	Tyr	Asp	Thr	Lys	Ser	Thr	Gly	Gly	Arg	Phe	Lys	
		35					40					45				
Arg	Ser	Val	Ser	Ala	Phe	Arg	Asn	Trp	Leu	Thr	Ala	Asp	Gly	Ala	Pro	
	50					55					60					
Gly	Pro	Ser	Gly	Glu	Gly	Gly	Phe	Ala	Ala	Glu	Lys	Asp	Arg	Tyr	His	
65					70					75					80	
Leu	Tyr	Val	Ser	Leu	Ala	Cys	Pro	Trp	Ala	His	Arg	Thr	Leu	Ile	Val	
				85					90					95		
Arg	Lys	Leu	Lys	Gly	Leu	Glu	Ser	Leu	Ile	Pro	Val	Ser	Val	Val	Asn	
			100					105					110			
Pro	Leu	Met	Leu	Glu	Asn	Gly	Trp	Thr	Phe	Asp	Ser	Asp	Phe	Pro	Ala	
		115					120					125				
Ala	Thr	Gly	Asp	Glu	Leu	Tyr	His	His	Asp	Phe	Leu	Tyr	Gln	Leu	Tyr	
	130					135					140					
Leu	Arg	Ala	Asp	Pro	His	Tyr	Thr	Gly	Arg	Val	Thr	Val	Pro	Val	Leu	
145					150					155					160	
Trp	Asp	Lys	Lys	Asn	Gln	Thr	Ile	Val	Ser	Asn	Glu	Ser	Ala	Glu	Ile	
				165				170						175		
Ile	Arg	Met	Phe	Asn	Thr	Ala	Phe	Asp	Ala	His	Gly	Ala	Arg	Ala	Gly	
			180					185					190			
Asp	Tyr	Tyr	Pro	Val	Glu	Leu	Arg	Glu	Lys	Ile	Asp	Glu	Leu	Asn	Gly	
		195					200				205					
Trp	Ile	Tyr	Asp	Asn	Val	Asn	Asn	Gly	Val	Tyr	Lys	Ala	Gly	Phe	Ala	
	210					215					220					
Thr	Ser	Gln	Glu	Ala	Tyr	Asp	Glu	Ala	Val	Gly	Asn	Val	Phe	Gly	Ser	
225					230					235					240	
Leu	Glu	Arg	Leu	Glu	Gln	Ile	Leu	Gly	Gln	His	Arg	Tyr	Leu	Thr	Gly	
				245					250					255		
Asp	Arg	Leu	Thr	Glu	Ala	Asp	Ile	Arg	Leu	Trp	Thr	Thr	Leu	Ile	Arg	
		260						265					270			
Phe	Asp	Pro	Val	Tyr	Val	Thr	His	Phe	Lys	Cys	Asp	Lys	His	Arg	Ile	
		275					280					285				
Ser	Asp	Tyr	Leu	Asn	Leu	His	Gly	Phe	Leu	Arg	Asp	Ile	Tyr	Gln	Met	
	290					295					300					
Pro	Gly	Ile	Ala	Glu	Thr	Val	Asn	Phe	Asp	His	Ile	Arg	Thr	His	Tyr	
305					310					315					320	
Phe	Arg	Ser	His	Lys	Thr	Ile	Asn	Pro	Thr	Gly	Ile	Ile	Ser	Ile	Gly	
				325					330					335		
Pro	Trp	Gln	Asp													

<210> 9743
 <211> 163
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9743

```

Lys Glu Glu Asn Ala Met Pro Asn Ile Val Leu Cys Arg Ile Asp Glu
1      5      10      15
Arg Leu Ile His Gly Gln Val Gly Val Gln Trp Val Gly Phe Ala Gly
20      25      30
Ala Asn Leu Val Leu Val Ala Asn Asp Glu Val Ala Asp Asp Pro Val
35      40      45
Gln Gln Asn Leu Met Glu Met Val Leu Ala Glu Gly Ile Ala Val Arg
50      55      60
Phe Trp Ser Leu Gln Lys Val Ile Asp Asn Ile His Arg Ala Ala Asp
65      70      75      80
Arg Gln Lys Ile Leu Val Cys Lys Thr Pro Ala Asp Phe Leu Thr
85      90      95
Leu Val Glu Gly Gly Val Pro Ile Thr Arg Ile Asn Val Gly Asn Met
100      105      110
His Tyr Ala Ser Gly Lys Gln Gln Ile Ala Lys Thr Val Ser Val Asp
115      120      125
Ala Asn Asp Ile Ala Ala Phe Asn Gly Leu Lys Ala Ala Gly Val Glu
130      135      140
Cys Phe Val Gln Gly Val Pro Thr Glu Thr Ala Leu Asp Leu Phe Lys
145      150      155      160
Leu Leu

```

<210> 9744
 <211> 392
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9744

```

Thr Cys Thr Leu Ser Arg Gly Ser Ala Arg Arg Gly Arg Asp Met Ser
1      5      10      15
Gln Leu Leu Arg Ala Arg Arg Leu Leu Thr Gly Gln Gly Trp Leu Asp
20      25      30
Asp His Gln Leu Arg Met Asp Arg Gly Val Ile Thr Ala Ile Glu Pro
35      40      45
Ile Pro Ala Gly Val Asn Thr Arg Glu Ala Asp Leu Leu Cys Pro Ala
50      55      60
Tyr Ile Asp Ile His Phe His Gly Gly Ala Gly Val Asp Val Met Asp
65      70      75      80
Asp Ala Pro Asp Val Leu Asp Arg Leu Ala Leu His Lys Ala Arg Glu
85      90      95
Gly Val Gly Ala Phe Leu Pro Thr Thr Val Thr Ala Ser Leu Glu Ala
100      105      110
Ile His Gly Ala Leu Arg Arg Ile Ala Arg Arg Cys His Ala Gly Gly
115      120      125
Pro Gly Ala Gln Leu Leu Gly Ser Tyr Leu Glu Gly Pro Tyr Phe Thr
130      135      140
Pro Gln Asn Lys Gly Ala His Pro Pro Glu Leu Phe Arg Glu Leu Asp
145      150      155      160
Leu Ala Glu Leu Asp Glu Leu Ile Ala Val Ser Gln Asn Thr Leu Arg
165      170      175
Val Val Ala Leu Ala Pro Glu Lys Val Asp Ala Leu Lys Ala Ile His
180      185      190
His Leu Lys Gln Lys Gly Ile Arg Val Met Leu Gly His Ser Ala Ala
195      200      205

```

Thr Tyr Ala Gln Thr Leu Ala Ala Phe Asp Ala Gly Ala Asp Gly Leu
 210 215 220
 Val His Cys Tyr Asn Gly Met Thr Gly Leu His Arg Glu Pro Gly
 225 230 235 240
 Met Val Gly Ala Gly Leu Thr Asp Pro Arg Ala Trp Leu Glu Leu Ile
 245 250 255
 Ala Asp Gly His His Val His Pro Gly Ala Met Arg Leu Cys Cys Cys
 260 265 270
 Cys Ala Lys Asp Arg Thr Val Leu Ile Thr Asp Ala Met Gln Ala Ala
 275 280 285
 Gly Met Pro Asp Gly Gly Tyr Thr Leu Cys Gly Glu Ser Val Glu Met
 290 295 300
 Gln Gly Gly Val Val Arg Thr Ala Ser Gly Gly Leu Ala Gly Ser Thr
 305 310 315 320
 Leu Ala Leu Asp Ala Ala Val Arg Asn Met Val Glu His Thr Gly Val
 325 330 335
 Ala Pro Glu Asn Ala Ile His Met Ala Ser Leu His Pro Ala Arg Leu
 340 345 350
 Leu Gly Met Asp His Leu Leu Gly Ser Leu Ala Pro Gly Lys Arg Ala
 355 360 365
 Asn Ile Ile Ala Leu Asp Ala Gly Leu His Leu Arg Gln Ile Trp Ile
 370 375 380
 Gln Gly Gln Ala Leu Ser Leu
 385 390

<210> 9745

<211> 382

<212> PRT

<213> Enterobacter cloacae

<400> 9745

Val Met Pro Gln Thr Thr Thr Thr Thr Gly Thr Trp Thr Glu Lys Glu
 1 5 10 15
 Ile Arg Gln Gln Pro Ala Ser Trp Leu Arg Ser Leu Asn Asn Ile Asp
 20 25 30
 Asn Leu Arg Ala Ser Ile Asp Ser Phe Leu Thr Pro Leu Leu Arg Lys
 35 40 45
 Pro Asp Leu Arg Ile Val Leu Thr Gly Ala Gly Thr Ser Ala Phe Ile
 50 55 60
 Gly Asp Ile Ile Ala Pro Trp Leu Ala Ser His Thr Arg Lys Asn Ile
 65 70 75 80
 Thr Ala Ile Pro Thr Thr Asp Leu Val Thr Asn Pro Met Asp Tyr Phe
 85 90 95
 Ser Pro Ala His Pro Leu Leu Leu Val Ser Phe Ala Arg Ser Gly Asn
 100 105 110
 Ser Pro Glu Ser Val Ala Ala Val Glu Leu Ala Asn Gln Phe Val Pro
 115 120 125
 Glu Cys Tyr His Leu Ser Ile Thr Cys Asn Glu Ala Gly Ser Leu Tyr
 130 135 140
 Gln Asn Ala Val Asp Ser Asp Asn Ala Cys Ala Leu Leu Met Pro Ala
 145 150 155 160
 Glu Thr His Asp Arg Gly Phe Ala Met Thr Ser Ser Ile Thr Thr Met
 165 170 175
 Met Ala Ser Cys Leu Ala Val Phe Ala Pro Glu Thr Ile Asn Ser Lys
 180 185 190
 Thr Phe Arg Asp Val Ser Asp Arg Cys Gln Ala Ile Leu Thr Ser Leu
 195 200 205
 Gly Asp Phe Ser Pro Gly Val Phe Gly Asn Glu Pro Trp Lys Arg Ile
 210 215 220
 Val Tyr Leu Gly Ser Gly Gly Leu Gln Gly Ala Ala Arg Glu Ser Ala
 225 230 235 240

```
<210> 9746
<211> 295
<212> PRT
<213> Enterobacter cloacae
```

<400> 9746																
Glu	Asp	Arg	Leu	Met	Ser	Ile	Ile	Ser	Thr	Lys	Tyr	Leu	Leu	Gln	Asp	
1				5					10					15		
Ala	Gln	Ala	Lys	Gly	Phe	Ala	Val	Pro	Ala	Phe	Asn	Ile	His	Asn	Ala	
			20					25					30			
Glu	Thr	Ile	Gln	Ala	Ile	Leu	Glu	Val	Cys	Ser	Glu	Met	Arg	Ser	Pro	
		35					40					45				
Val	Ile	Leu	Ala	Gly	Thr	Pro	Gly	Thr	Phe	Lys	His	Ile	Ala	Leu	Glu	
	50					55					60					
Glu	Ile	Tyr	Ala	Leu	Cys	Ser	Ala	Tyr	Ser	Leu	Thr	Tyr	Asp	Met	Pro	
65					70					75					80	
Leu	Ala	Leu	His	Leu	Asp	His	His	Glu	Ser	Leu	Asp	Asp	Ile	Arg	Arg	
				85					90					95		
Lys	Val	His	Ala	Gly	Val	Arg	Ser	Ala	Met	Ile	Asp	Gly	Ser	His	Tyr	
			100					105					110			
Pro	Phe	Glu	Gln	Asn	Val	Lys	Leu	Val	Lys	Ser	Val	Val	Asp	Phe	Cys	
		115					120					125				
His	Leu	Asn	Asp	Cys	Ser	Val	Glu	Ala	Glu	Leu	Gly	Arg	Leu	Gly	Gly	
	130					135					140					
Val	Glu	Asp	Asp	Met	Ser	Val	Asp	Ala	Glu	Ser	Ala	Phe	Leu	Thr	Asp	
145					150					155					160	
Pro	Gln	Glu	Ala	Lys	Arg	Phe	Val	Glu	Leu	Thr	Gly	Val	Asp	Ser	Leu	
			165						170					175		
Ala	Val	Ala	Ile	Gly	Thr	Ala	His	Gly	Leu	Tyr	Thr	Lys	Arg	Pro	Lys	
		180						185					190			
Ile	Asp	Phe	Gln	Arg	Leu	Ala	Glu	Ile	Arg	Glu	Val	Met	Thr	Val	Pro	
		195					200					205				
Leu	Val	Leu	His	Gly	Ala	Ser	Asp	Val	Pro	Asp	Glu	Asp	Val	Arg	Arg	
	210					215					220					
Thr	Ile	Glu	Leu	Gly	Val	Cys	Lys	Val	Asn	Val	Ala	Thr	Glu	Leu	Lys	
225					230					235					240	
Ile	Ala	Phe	Ser	Asp	Ala	Val	Lys	Ala	Trp	Phe	Ala	Glu	Asn	Pro	Gln	
			245						250				255			
Gly	Asn	Asp	Pro	Arg	Phe	Tyr	Met	Arg	Val	Gly	Met	Asp	Ala	Met	Lys	
			260					265					270			
Glu	Val	Val	Arg	Ser	Lys	Ile	Thr	Val	Cys	Gly	Ser	Ala	Asn	Arg	Leu	
		275					280					285				

Leu Leu Pro Ala Glu Ala
290 295

<210> 9747

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 9747

Arg Arg Val Leu Lys Pro Asp Ser Ala Phe His Tyr Pro Lys Asn Pro
1 5 10 15
Arg Ser Pro Tyr Met Thr Gln Glu Lys Ser Phe Lys Ser Lys Ala Trp
20 25 30
Glu Phe Phe Gln Ser Leu Gly Lys Thr Phe Met Phe Pro Val Ser Leu
35 40 45
Leu Ala Phe Met Gly Leu Leu Leu Gly Ile Gly Ser Val Thr Ser
50 55 60
Pro Ser Thr Ile Lys Ser Phe Pro Phe Leu Gly Gly Glu Leu Thr Gln
65 70 75 80
Leu Thr Phe Gly Phe Ile Ala Met Val Gly Gly Phe Ala Phe Thr Tyr
85 90 95
Leu Pro Leu Met Phe Ala Met Ala Ile Pro Met Gly Leu Ala Arg Arg
100 105 110
Asn Lys Ala Val Gly Ala Phe Ala Gly Phe Val Gly Tyr Met Leu Met
115 120 125
Asn Met Ser Ile Asn Tyr Tyr Leu Thr Ala Thr His Gln Leu Ala Asp
130 135 140
Ala Ala Thr Met Arg Gln Val Gly Gln Ser Ile Val Leu Gly Ile Gln
145 150 155 160
Thr Leu Glu Met Gly Val Leu Gly Gly Ile Val Val Gly Val Ile Thr
165 170 175
Tyr Phe Leu His Glu Asn
180

<210> 9748

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9748

Val Tyr Pro Phe Ser His Tyr Phe Gly Val Leu Met Asn Gln Leu Thr
1 5 10 15
Tyr Leu Gln Gly Tyr Pro Glu His Leu Leu Ser Gln Val Arg Asp Leu
20 25 30
Ile Ala Ala Gly Lys Leu Gly Ala Val Leu Glu Lys Arg Tyr Pro Gly
35 40 45
Thr His Asp Phe Ala Thr Asp Lys Ala Leu Trp Gln Tyr Thr Gln Asp
50 55 60
Leu Lys Asn Gln Tyr Leu Lys Ser Ala Pro Pro Ile Asn Lys Val Met
65 70 75 80
Tyr Asp Asn Lys Ile His Val Leu Lys Asn Ala Leu Gly Leu His Thr
85 90 95
Ala Ile Ser Arg Val Gln Gly Gly Lys Leu Lys Ala Lys Ala Glu Ile
100 105 110
Arg Val Ala Thr Val Phe Arg Asn Ala Pro Glu Ala Phe Leu Arg Met
115 120 125
Ile Val Val His Glu Leu Ala His Leu Lys Glu Lys Glu His Asp Lys
130 135 140
Ala Phe Tyr Ser Leu Cys Cys His Met Glu Pro Gln Tyr His Gln Leu
145 150 155 160
Glu Phe Asp Thr Arg Leu Trp Leu Thr His Leu Ser Leu Lys Ser Asn

Ala Gln 165 170 175

<210> 9749
 <211> 333
 <212> PRT
 <213> Enterobacter cloacae

<400> 9749
 Pro Phe Leu Phe Phe Met Cys Lys Glu Asn Ser Met His Ser Val Gly
 1 5 10 15
 Thr Pro Met Leu Trp Gly Gly Phe Ala Val Val Val Leu Ile Met Leu
 20 25 30
 Ala Ile Asp Leu Phe Leu Gln Gly Arg Arg Gly Glu His Gly Met Ser
 35 40 45
 Val Lys Gln Ala Ala Val Trp Ser Leu Val Trp Val Thr Leu Ser Leu
 50 55 60
 Leu Phe Cys Ala Ala Phe Trp Trp Tyr Leu Ala Ser Thr Glu Gly Arg
 65 70 75 80
 Ala Val Ala Asp Pro Gln Ala Leu Ala Phe Leu Thr Gly Tyr Leu Ile
 85 90 95
 Glu Lys Ala Leu Ala Val Asp Asn Val Phe Val Trp Leu Met Leu Phe
 100 105 110
 Ser Tyr Phe Ala Val Pro Ala Ala Leu Gln Arg Arg Val Leu Val Tyr
 115 120 125
 Gly Val Leu Gly Ala Ile Val Leu Arg Thr Ile Met Ile Phe Ala Gly
 130 135 140
 Ser Trp Leu Ile Thr Gln Phe Glu Trp Leu Leu Tyr Val Phe Gly Ala
 145 150 155 160
 Phe Leu Leu Phe Thr Gly Val Lys Met Ala Leu Ala Lys Glu Asp Asp
 165 170 175
 Thr Gly Ile Gly Asp Lys Pro Leu Val Lys Trp Phe Arg Gly His Leu
 180 185 190
 Arg Met Thr Asp Lys Ile Glu Ser Glu His Phe Phe Val Arg Lys Asn
 195 200 205
 Gly Leu Leu Phe Ala Thr Pro Leu Leu Leu Val Leu Ile Leu Val Glu
 210 215 220
 Leu Ser Asp Val Ile Phe Ala Val Asp Ser Ile Pro Ala Ile Phe Ala
 225 230 235 240
 Val Thr Thr Asp Pro Phe Ile Val Leu Thr Ser Asn Leu Phe Ala Ile
 245 250 255
 Leu Gly Leu Arg Ala Met Tyr Phe Leu Leu Ala Gly Ala Ala Glu Arg
 260 265 270
 Phe Ser Met Leu Lys Tyr Gly Leu Ser Val Ile Leu Val Phe Ile Gly
 275 280 285
 Ile Lys Met Leu Ile Val Asp Phe Tyr His Ile Pro Ile Ala Ile Ser
 290 295 300
 Leu Gly Val Val Phe Gly Ile Leu Leu Val Thr Leu Ile Ile Asn Thr
 305 310 315 320
 Trp Val Asn Arg Gln His Asp Lys Lys Gln Gln Val
 325 330

<210> 9750
 <211> 270
 <212> PRT
 <213> Enterobacter cloacae

<400> 9750
 Gln Ile Ile Arg Arg Thr Leu Pro Gly Ala His Met Glu Ile Thr Glu
 1 5 10 15

```

Ser Arg Arg Leu Tyr Gln Gln Leu Ala Ala Glu Leu Lys Asp Arg Ile
      20      25      30
Glu Gln Gly Val Tyr Leu Val Gly Asp Lys Leu Pro Ala Glu Arg Phe
      35      40      45
Ile Ala Asp Glu Lys Ser Val Ser Arg Thr Val Val Arg Glu Ala Ile
      50      55      60
Ile Met Leu Glu Val Glu Gly Tyr Val Glu Val Arg Lys Gly Ser Gly
      65      70      75      80
Ile His Val Ile Ser Ser Gln Ala Lys His Ser Pro Thr Pro Asp Glu
      85      90      95
Ser Leu Glu Phe Ala Ser Tyr Gly Pro Phe Glu Leu Leu Gln Ala Arg
      100      105      110
Gln Leu Ile Glu Ser Asn Ile Ala Glu Phe Ala Ala Thr Gln Val Thr
      115      120      125
Lys Gln Asp Ile Met Lys Leu Met Glu Ile Gln Asp His Ala Arg Lys
      130      135      140
Glu Lys Cys Phe Arg Asp Ser Glu Trp Asp Leu Gln Phe His Val Gln
      145      150      155      160
Val Ala Leu Ala Thr Gln Asn Thr Ala Leu Ala Ala Ile Val Glu Lys
      165      170      175
Met Trp Thr Gln Arg Val His Asn Pro Tyr Trp Lys Lys Leu His Asp
      180      185      190
His Ile Asp Ser Arg Thr Val Asp Asn Trp Cys Asp Asp His Asp Gln
      195      200      205
Ile Leu Lys Ala Leu Ile Arg Lys Asp Pro His Ala Ala Lys Leu Ala
      210      215      220
Met Trp Gln His Leu Glu Asn Thr Lys Gln Met Leu Phe Asn Glu Thr
      225      230      235      240
Ser Asp Asp Phe Glu Phe Asn Ala Asp Arg Tyr Leu Phe Ala Asp Asn
      245      250      255
Pro Val Val His Leu Asp Thr Ala Thr Asn Leu Ala Lys
      260      265      270

```

<210> 9751

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 9751

```

Met Glu Leu Leu Thr Gln Leu Leu Asn Ala Leu Trp Ala Gln Asp Phe
1      5      10      15
Glu Thr Leu Ala Asn Pro Ser Met Ile Gly Met Leu Tyr Phe Val Leu
      20      25      30
Phe Met Ile Leu Phe Leu Glu Asn Gly Leu Leu Pro Ala Ala Phe Leu
      35      40      45
Pro Gly Asp Ser Leu Leu Val Leu Val Gly Val Leu Cys Ala Lys Gly
      50      55      60
Ala Met Ala Phe Pro Gln Thr Val Leu Leu Leu Thr Ile Ala Ala Ser
      65      70      75      80
Leu Gly Cys Trp Val Ser Tyr Ile Gln Gly Arg Trp Leu Gly Asn Thr
      85      90      95
Arg Ile Val Gln Asn Trp Leu Ser His Leu Pro Ala His Tyr His Gln
      100      105      110
Arg Ala His His Leu Phe His Lys His Gly Leu Ser Ala Leu Leu Ile
      115      120      125
Gly Arg Phe Ile Ala Phe Val Arg Thr Leu Leu Pro Thr Ile Ala Gly
      130      135      140
Leu Ser Gly Leu Ser Ser Thr Arg Phe Gln Phe Phe Asn Trp Met Ser
      145      150      155      160
Gly Leu Leu Trp Val Leu Ile Leu Thr Thr Leu Gly Tyr Ala Leu Gly
      165      170      175

```


Lys Thr Pro Val Phe Met Lys Tyr Glu Asp Gln Leu Met Ser Cys Leu
 180 185 190
 Met Leu Leu Pro Val Val Leu Leu Val Phe Gly Leu Val Gly Ser Leu
 195 200 205
 Val Val Leu Trp Lys Lys Lys Tyr Gly Ala Arg Gly
 210 215 220

<210> 9752

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 9752

Arg Lys Ser Gln Gln Glu Arg Ile Met Ser Lys Asp Thr Thr Ser Glu
 1 5 10 15
 Asn Leu Arg Ala Glu Leu Lys Ser Leu Ala Asp Thr Leu Glu Glu Val
 20 25 30
 Leu Asn Ser Ser Ala Asp Lys Ser Lys Glu Glu Val Ser Lys Leu Arg
 35 40 45
 Ser Lys Ala Glu Gln Ala Leu Lys Glu Ser Arg Tyr Arg Leu Gly Glu
 50 55 60
 Thr Gly Asp Ala Leu Ala Lys Gln Thr Arg Glu Ala Ala Ala Arg Ala
 65 70 75 80
 Asp Glu Tyr Val Arg Asp Asn Pro Trp Thr Gly Val Gly Ile Gly Ala
 85 90 95
 Ala Val Gly Val Val Leu Gly Val Leu Leu Thr Arg Arg
 100 105 110

<210> 9753

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 9753

Leu Ile Lys Arg Gln Gly Lys Met Asp Trp Tyr Leu Lys Val Leu Arg
 1 5 10 15
 Asn Tyr Phe Gly Phe Gly Gly Arg Ala Arg Arg Lys Glu Tyr Trp Met
 20 25 30
 Phe Val Leu Val Asn Phe Val Leu Ile Met Val Leu Gly Ile Val Asp
 35 40 45
 Lys Ile Leu Gly Trp Glu Arg Glu Gly Gly Glu Gly Ile Leu Thr Thr
 50 55 60
 Ile Tyr Gly Val Leu Val Leu Leu Pro Ser Trp Ala Val Leu Phe Arg
 65 70 75 80
 Arg Leu His Asp Thr Asp Arg Ser Ala Trp Trp Leu Leu Leu Leu Leu
 85 90 95
 Ile Pro Leu Ile Gly Trp Ile Val Ile Leu Ile Phe Asn Cys Gln Ser
 100 105 110
 Gly Thr Pro Gly Glu Asn Arg Phe Gly Pro Asp Pro Lys Ala Ser Ala
 115 120 125

<210> 9754

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 9754

Arg Arg Pro Glu Trp Asn Ala Ser Phe Arg Ala Phe Gln Gln Arg Leu
 1 5 10 15

Leu Trp Ile Ser Leu Asn Cys Ser Glu Gly Phe Thr Met Glu Ile Ser
 20 25 30
 Leu Leu Gln Ala Phe Ala Leu Gly Leu Leu Ala Phe Ile Ala Gly Leu
 35 40 45
 Asp Met Phe Asn Gly Leu Thr His Met His Arg Pro Val Val Leu Gly
 50 55 60
 Pro Leu Val Gly Leu Ile Leu Gly Asp Leu His Thr Gly Ile Leu Thr
 65 70 75 80
 Gly Gly Thr Leu Glu Leu Val Trp Met Gly Leu Ala Pro Leu Ala Gly
 85 90 95
 Ala Gln Pro Pro Asn Val Ile Ile Gly Thr Ile Val Gly Thr Thr Phe
 100 105 110
 Ala Ile Thr Thr Gly Val Lys Pro Asp Val Ala Val Gly Val Ala Val
 115 120 125
 Pro Phe Ala Val Ala Val Gln Met Gly Ile Thr Phe Leu Phe Ser Val
 130 135 140
 Met Ser Gly Val Met Ser Arg Cys Asp Arg Met Ala Ala Asn Ala Asp
 145 150 155 160
 Thr Arg Gly Ile Glu Arg Val Asn Tyr Leu Ala Leu Leu Ala Leu Gly
 165 170 175
 Val Phe Tyr Phe Leu Cys Ala Phe Leu Pro Ile Tyr Phe Gly Ala Glu
 180 185 190
 His Ala Lys Thr Ala Ile Asp Val Leu Pro Glu Arg Leu Ile Asp Gly
 195 200 205
 Leu Gly Val Ala Gly Gly Ile Met Pro Ala Ile Gly Phe Ala Val Leu
 210 215 220
 Leu Lys Ile Met Met Lys Asn Val Tyr Ile Pro Tyr Phe Ile Ile Gly
 225 230 235 240
 Phe Val Ala Ala Ala Trp Leu Lys Leu Pro Val Leu Ala Ile Ala Ala
 245 250 255
 Ala Ala Leu Ala Met Ala Leu Ile Asp Leu Leu Arg Lys Ser Pro Glu
 260 265 270
 Pro Thr Ala Pro Ala Ala Gln Lys Glu Glu Phe Glu Asp Gly Ile
 275 280 285

<210> 9755

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 9755

Ile Leu Ser Leu Pro Val Lys Ser Lys Glu Val Ala Met Leu Gly Ile
 1 5 10 15
 Ile Leu Thr Gly His Gly Gly Phe Ala Ser Gly Leu Gln Gln Ala Met
 20 25 30
 Lys Gln Ile Leu Gly Glu Gln Pro Gln Phe Ile Ala Ile Asp Phe Pro
 35 40 45
 Glu Ser Ser Thr Thr Ala Arg Leu Thr Ala Gln Leu Glu Gln Ala Val
 50 55 60
 Asn Glu Leu Asp Ala Glu His Asp Ile Val Phe Leu Thr Asp Leu Leu
 65 70 75 80
 Gly Gly Thr Pro Phe Arg Val Ala Ser Thr Leu Ala Met Gln Arg Pro
 85 90 95
 Gly Ser Glu Val Ile Thr Gly Thr Asn Leu Gln Leu Leu Leu Glu Met
 100 105 110
 Val Leu Glu Arg Asp Gly Leu Ser Ser Glu Ala Phe Arg Leu Gln Ala
 115 120 125
 Leu Glu Cys Gly His Arg Gly Leu Thr Ser Leu Val Asp Glu Leu Ala
 130 135 140
 Arg Cys Arg Glu Glu Ala Pro Ala Glu Glu Gly Ile
 145 150 155

<210> 9756
 <211> 614
 <212> PRT
 <213> Enterobacter cloacae

<400> 9756

Arg	Glu	Ala	Arg	Leu	Asn	Ser	His	His	Gly	Pro	Phe	Ala	Met	Val	Asn
1				5					10					15	
Asn	Met	Thr	Asp	Leu	Thr	Ala	Gln	Glu	Ala	Ala	Trp	Gln	Thr	Arg	Asp
			20					25					30		
His	Leu	Asp	Asp	Pro	Val	Ile	Gly	Glu	Leu	Arg	Asn	Arg	Phe	Gly	Pro
		35					40					45			
Asp	Ala	Phe	Thr	Val	Gln	Ala	Thr	Arg	Thr	Gly	Val	Pro	Val	Val	Trp
	50					55					60				
Val	Lys	Arg	Glu	Gln	Leu	Leu	Glu	Val	Val	Asp	Phe	Leu	Lys	Lys	Leu
65					70				75						80
Pro	Lys	Pro	Tyr	Val	Met	Leu	Phe	Asp	Leu	His	Gly	Met	Asp	Glu	Arg
				85				90					95		
Leu	Arg	Thr	His	Arg	Gln	Gly	Leu	Pro	Ala	Ala	Asp	Phe	Ser	Val	Phe
			100					105					110		
Tyr	His	Leu	Ile	Ser	Ile	Asp	Arg	Asn	Thr	Asp	Ile	Met	Leu	Lys	Val
		115				120						125			
Ala	Leu	Ser	Glu	Asn	Asp	Met	His	Leu	Pro	Thr	Ile	Thr	Lys	Leu	Phe
	130					135						140			
Pro	Asn	Ala	Asn	Trp	Tyr	Glu	Arg	Glu	Thr	Trp	Glu	Met	Phe	Gly	Met
145					150					155					160
Thr	Phe	Asp	Gly	His	Pro	His	Leu	Thr	Arg	Ile	Met	Met	Pro	Gln	Thr
				165					170					175	
Trp	Thr	Gly	His	Pro	Leu	Arg	Lys	Asp	Tyr	Pro	Ala	Arg	Ala	Thr	Glu
			180					185					190		
Phe	Asp	Pro	Phe	Glu	Leu	Thr	Lys	Ala	Lys	Gln	Asp	Leu	Glu	Met	Glu
		195					200					205			
Ala	Leu	Thr	Phe	Lys	Pro	Glu	Asp	Trp	Gly	Met	Lys	Arg	Gly	Thr	Glu
	210					215						220			
Asn	Glu	Asp	Phe	Met	Phe	Leu	Asn	Leu	Gly	Pro	Asn	His	Pro	Ser	Ala
225					230					235					240
His	Gly	Ala	Phe	Arg	Ile	Ile	Leu	Gln	Leu	Asp	Gly	Glu	Glu	Ile	Val
				245					250					255	
Asp	Cys	Val	Pro	Asp	Ile	Gly	Tyr	His	His	Arg	Gly	Ala	Glu	Lys	Met
		260					265						270		
Gly	Glu	Arg	Gln	Ser	Trp	His	Ser	Tyr	Ile	Pro	Tyr	Thr	Asp	Arg	Ile
		275				280						285			
Glu	Tyr	Leu	Gly	Gly	Cys	Val	Asn	Glu	Met	Pro	Tyr	Val	Leu	Ala	Val
	290					295					300				
Glu	Lys	Leu	Ala	Gly	Ile	Thr	Val	Pro	Asp	Arg	Val	Asn	Val	Ile	Arg
305					310					315					320
Val	Met	Leu	Ser	Glu	Leu	Phe	Arg	Ile	Asn	Ser	His	Leu	Leu	Tyr	Ile
				325					330					335	
Ser	Thr	Phe	Ile	Gln	Asp	Val	Gly	Ala	Met	Thr	Pro	Val	Phe	Phe	Ala
			340					345					350		
Phe	Thr	Asp	Arg	Gln	Lys	Ile	Tyr	Asp	Leu	Val	Glu	Ala	Ile	Thr	Gly
		355					360					365			
Phe	Arg	Met	His	Pro	Ala	Trp	Phe	Arg	Ile	Gly	Gly	Val	Ala	His	Asp
	370					375					380				
Leu	Pro	Arg	Gly	Trp	Asp	Arg	Leu	Leu	Arg	Glu	Phe	Leu	Asp	Trp	Met
385					390					395					400
Pro	Lys	Arg	Leu	Ala	Ser	Tyr	Glu	Lys	Ala	Ala	Leu	Arg	Asn	Ser	Ile
				405					410					415	
Leu	Lys	Gly	Arg	Ser	Gln	Gly	Val	Ala	Ala	Tyr	Gly	Ala	Lys	Glu	Ala
			420					425					430		

Leu Glu Trp Gly Thr Thr Gly Ala Gly Leu Arg Ala Thr Gly Ile Asp
 435 440 445
 Phe Asp Val Arg Lys Ala Arg Pro Tyr Ser Gly Tyr Glu Asn Phe Asp
 450 455 460
 Phe Glu Val Pro Val Gly Gly Gly Val Ser Asp Cys Tyr Thr Arg Val
 465 470 475 480
 Met Leu Lys Val Glu Glu Leu Arg Gln Ser Leu Arg Ile Leu Glu Gln
 485 490 495
 Cys Leu Asn Asn Met Pro Glu Gly Pro Phe Lys Ala Asp His Pro Leu
 500 505 510
 Thr Thr Pro Pro Lys Glu Arg Thr Leu Gln His Ile Glu Thr Leu
 515 520 525
 Ile Thr His Phe Leu Gln Val Ser Trp Gly Pro Val Met Pro Ala Gln
 530 535 540
 Glu Ser Phe Gln Met Ile Glu Ala Thr Lys Gly Ile Asn Ser Tyr Tyr
 545 550 555 560
 Leu Thr Ser Asp Gly Ser Thr Met Ser Tyr Arg Thr Arg Val Arg Thr
 565 570 575
 Pro Ser Phe Ala His Leu Gln Gln Ile Pro Ala Ala Ile Arg Gly Ser
 580 585 590
 Leu Val Ser Asp Leu Ile Val Tyr Leu Gly Ser Ile Asp Phe Val Met
 595 600 605
 Ser Asp Val Asp Arg
 610

<210> 9757

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 9757

Pro Ser Gly Gly Lys Ser Met Ser Trp Leu Thr Pro Asp Leu Ile Asp
 1 5 10 15
 Ile Leu Leu Ser Ile Leu Lys Ala Val Val Ile Leu Leu Val Val Val
 20 25 30
 Thr Cys Gly Ala Phe Met Ser Phe Gly Glu Arg Arg Leu Leu Gly Leu
 35 40 45
 Phe Gln Asn Arg Tyr Gly Pro Asn Arg Val Gly Trp Gly Gly Ser Leu
 50 55 60
 Gln Leu Val Ala Asp Met Ile Lys Met Phe Phe Lys Glu Asp Trp Val
 65 70 75 80
 Pro Arg Phe Ser Asp Arg Val Ile Phe Thr Leu Ala Pro Met Ile Ala
 85 90 95
 Phe Thr Ser Leu Leu Ala Phe Ala Ile Val Pro Val Ser Pro Thr
 100 105 110
 Trp Val Val Ala Asp Leu Asn Ile Gly Ile Leu Phe Phe Leu Met Met
 115 120 125
 Ala Gly Leu Ala Val Tyr Ala Val Leu Phe Ala Gly Trp Ser Ser Asn
 130 135 140
 Asn Lys Tyr Ser Leu Leu Gly Ala Met Arg Ala Ser Ala Gln Thr Leu
 145 150 155 160
 Ser Tyr Glu Val Phe Leu Gly Leu Ser Leu Met Gly Val Val Ala Gln
 165 170 175
 Ala Gly Ser Phe Asn Met Thr Asp Ile Val Asn Asn Gln Ala Asp Ile
 180 185 190
 Trp Asn Val Ile Pro Gln Phe Phe Gly Phe Ile Thr Phe Ala Ile Ala
 195 200 205
 Gly Val Ala Val Cys His Arg His Pro Phe Asp Gln Pro Glu Ala Glu
 210 215 220
 Gln Glu Leu Ala Asp Gly Tyr His Ile Glu Tyr Ser Gly Met Lys Phe
 225 230 235 240

Gly	Leu	Phe	Phe	Val	Gly	Glu	Tyr	Ile	Gly	Ile	Val	Thr	Ile	Ser	Ala	
				245					250					255		
Leu	Met	Val	Thr	Leu	Phe	Phe	Gly	Gly	Trp	His	Gly	Pro	Phe	Leu	Pro	
				260				265					270			
Pro	Phe	Ile	Trp	Phe	Ala	Leu	Lys	Thr	Ala	Phe	Phe	Met	Met	Met	Phe	
				275				280					285			
Ile	Leu	Ile	Arg	Ala	Ala	Leu	Pro	Arg	Pro	Arg	Tyr	Asp	Gln	Val	Met	
						295					300					
Ser	Phe	Gly	Trp	Lys	Val	Cys	Leu	Pro	Leu	Thr	Leu	Val	Asn	Leu	Leu	
305					310					315					320	
Val	Thr	Ala	Ala	Val	Ile	Leu	Trp	Gln	Gln	Pro						
				325					330							

<210> 9758

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 9758

Phe	Pro	Val	Arg	Ala	Asn	Thr	Arg	Asn	Ile	Thr	Ser	Thr	Gly	Trp	Arg	
1				5					10					15		
Val	Trp	Gln	Ser	Thr	Ala	Lys	Ile	Arg	Ala	Lys	Gln	Arg	Thr	Lys	Pro	
			20					25					30			
Ser	Leu	Ser	Thr	Ser	Arg	Ala	Cys	Tyr	Arg	Lys	Glu	Arg	Ala	Met	Glu	
		35					40					45				
Phe	Ala	Phe	Tyr	Ile	Cys	Gly	Leu	Ile	Ala	Ile	Leu	Ala	Thr	Leu	Arg	
		50				55					60					
Val	Ile	Thr	His	Thr	Asn	Pro	Val	His	Ala	Leu	Leu	Tyr	Leu	Ile	Ile	
65					70				75					80		
Ser	Leu	Leu	Ala	Ile	Ser	Gly	Val	Phe	Phe	Ala	Leu	Gly	Ala	His	Phe	
				85					90					95		
Ala	Gly	Ala	Leu	Glu	Ile	Ile	Val	Tyr	Ala	Gly	Ala	Ile	Met	Val	Leu	
			100					105					110			
Phe	Val	Phe	Val	Val	Met	Met	Leu	Asn	Leu	Gly	Gly	Ser	Glu	Ile	Glu	
		115					120					125				
Gln	Glu	Arg	Gln	Trp	Leu	Lys	Pro	Gln	Val	Trp	Ile	Gly	Pro	Ala	Ile	
		130				135					140					
Leu	Ser	Ala	Ile	Met	Leu	Ala	Val	Ile	Val	Tyr	Ala	Ile	Leu	Gly	Val	
145					150					155				160		
Asn	Asp	Gln	Gly	Ile	Asp	Gly	Thr	Pro	Ile	Ser	Ala	Lys	Ala	Val	Gly	
				165					170					175		
Ile	Thr	Leu	Phe	Gly	Pro	Tyr	Val	Leu	Ala	Val	Glu	Leu	Ala	Ser	Met	
			180					185					190			
Leu	Leu	Leu	Ala	Gly	Leu	Val	Val	Ala	Phe	His	Val	Gly	Arg	Glu	Glu	
		195					200					205				
Arg	Val	Gly	Glu	Val	Leu	Ser	Asn	Arg	Thr	Asp	Asp	Arg	Ala	Lys	Arg	
		210				215					220					
Lys	Thr	Glu	Glu	Arg	Ala											
225					230											

<210> 9759

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 9759

Gln	Gly	Glu	Val	Arg	Val	His	Ser	Ile	Phe	Leu	Ala	Leu	Gln	Ser	Leu	
1				5					10					15		
Arg	Thr	Gln	Leu	Ala	Gln	Ala	Leu	Pro	Ala	Ile	Pro	Gly	Leu	Arg	His	
			20					25					30			
Phe	Asp	Val	Ser	Phe	Pro	Leu	Asn	Asp	Ala	Phe	Asp	Pro	Leu	Ala	Trp	

```

      35      40      45
Leu Gly Val Gln Arg Cys Tyr Pro Gln Phe Tyr Trp Gln Gln Arg Ser
  50      55      60
Gly Asp Glu Glu Leu Ala Ala Leu Gly Ser Leu Ala Gln Phe Asp Ser
  65      70      75      80
Leu Ala Ser Ala Ser Arg Phe Leu His Ala His Asp Val Ala Asn Asp
      85      90      95
Thr Arg Ile Cys Gly Leu Asn Ala Phe Asn Pro Ala Gln Gly Lys Leu
      100      105      110
Phe Leu Pro Arg Leu Leu Trp Arg Arg Ser Gly Gly Val Ala Thr Leu
      115      120      125
Arg Leu Gln Leu Trp Ser Glu Thr Ser Leu Arg Glu Asp Ala Arg Glu
      130      135      140
Ala Leu Asn Phe Val Asp Asn Leu Arg Asp Ala Ala Pro Ile Arg Pro
      145      150      155      160
Leu Ser Val Gln Ile Val Gln Glu Thr His His Pro Glu Lys Pro Asp
      165      170      175
Trp Leu Ala Leu Ile Arg Gln Ala Thr Asp Thr Leu Ala Arg Gly Asp
      180      185      190
Phe Glu Lys Val Val Leu Ala Arg Ala Thr Asp Val Gln Cys Gln Gln
      195      200      205
Pro Val Asn Ala Ile Ala Leu Met Ala Ala Ser Arg Ala Leu Asn Leu
      210      215      220
Asn Cys Tyr His Phe Cys Met Val Phe Asp Ala Ser Asn Ala Phe Leu
      225      230      235      240
Gly Ser Thr Pro Glu Arg Leu Trp Arg Arg Gly Thr Leu Leu Arg
      245      250      255
Thr Glu Ala Leu Ala Gly Thr Val Ala Ser His Ser Asp Asp Lys Gln
      260      265      270
Ala Gln Arg Leu Gly Asp Trp Leu Met Asn Asp Asp Lys Asn Gln Arg
      275      280      285
Glu Asn Met Leu Val Val Glu Asp Ile Cys Gln Arg Leu Gln His His
      290      295      300
Thr Arg Thr Leu Glu Ile Leu Pro Ala Gln Val Leu Arg Leu Arg Lys
      305      310      315      320
Val Gln His Leu Arg Arg Cys Ile Trp Thr Glu Leu Lys Gln Pro Asp
      325      330      335
Asp Glu Gln Cys Leu His Ile Leu Gln Pro Thr Ala Ala Val Ala Gly
      340      345      350
Leu Pro Arg Gln Ala Ala Arg Glu Phe Ile Ala Lys Val Glu Pro Phe
      355      360      365
Asp Arg Glu Trp Tyr Ala Gly Ser Ala Gly Tyr Leu Ser Arg Asp Gln
      370      375      380
Ser Glu Phe Cys Val Ala Leu Arg Ser Ala Arg Val His Asn Ala Ala
      385      390      395      400
Leu Arg Leu Tyr Ala Gly Ala Gly Ile Val Ser Gly Ser Asp Pro Glu
      405      410      415
Gln Glu Trp Gln Glu Ile Glu Asn Lys Ala Ala Gly Leu Arg Ser Leu
      420      425      430
Leu Leu Arg Asp
      435

```

<210> 9760

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 9760

```

Arg Arg Ala Glu Ala Ala Thr Ser Ala Cys Ala Gly Glu Ser Pro Val
  1      5      10      15
Ile Leu Ala Gly Val Ser Gln Pro Gly Asn Pro Gly Tyr Pro Trp Leu

```

20 25 30
 Val Phe Leu His Gly Phe Ser Gly Asp Cys Arg Glu Trp Gln Ala Val
 35 40 45
 Gly Ala Ser Leu His Asp Tyr Pro Arg Leu Tyr Ile Asp Leu Pro Gly
 50 55 60
 His Gly Gly Ser Ala Asp Thr Gly Val Thr Gly Phe Ala Glu Val Ser
 65 70 75 80
 Glu Leu Leu Ser His Thr Leu Val Ser Tyr Asn Ile Leu Arg Tyr Trp
 85 90 95
 Leu Val Gly Tyr Ser Leu Gly Gly Arg Ile Ala Met Phe His Ala Cys
 100 105 110
 Gln His Pro Ala Gly Leu Asp Gly Val Ile Val Glu Gly Gly His Pro
 115 120 125
 Gly Leu Gln Asp Ala Asp Ala Arg Gln Ala Arg Leu Ile Ser Asp Arg
 130 135 140
 Arg Trp Ala Ser Arg Phe Arg Ser Glu Pro Leu Glu Ala Val Phe Ala
 145 150 155 160
 Asp Trp Tyr Gln Gln Pro Val Phe Ala Ser Leu Thr Asp Asp Gln Arg
 165 170 175
 Arg Ala Leu Ile Ala Leu Arg Ser Arg Asn Asn Gly Pro Arg Leu Ala
 180 185 190
 Glu Met Leu Glu Ala Thr Ser Leu Ala Val Gln Pro Asp Leu Arg Pro
 195 200 205
 Ala Leu Ile Ala Arg Asp Phe Ser Phe Asp Tyr Leu Tyr Gly Glu Arg
 210 215 220
 Asp Gly Lys Phe Ala Ala Ile Ala Thr Glu Leu Asn Ala Thr Arg His
 225 230 235 240
 Ala Ile Pro His Ala Gly His Asn Ala His Arg Asp Asn Pro Glu Ala
 245 250 255
 Val Ala Ala Ser Leu Ala Gln Ile Leu Arg Tyr Arg Thr Lys Asp Thr
 260 265 270
 Leu

<210> 9761

<211> 539

<212> PRT

<213> Enterobacter cloacae

<400> 9761

Ala Asn Ala Asp Arg Gln Pro Arg Gln Gly Ala Arg Ala Gly Cys Gly
 1 5 10 15
 Gly Pro Cys Arg Arg Ala Asp Gly Gly Asp Gln Phe Ile His Arg Ile
 20 25 30
 Gln Pro Arg Pro Asp Ala Ala Gly Ala His Arg Cys Met Val Asn Ala
 35 40 45
 Gly His Arg Ser Arg Ser Arg Tyr Ala Lys Pro Asp Ala Gly Pro Ala
 50 55 60
 Asp Ser Pro Val Ala Trp Gln His Leu Ala Val Pro Arg Arg Arg Gly
 65 70 75 80
 Ala Gly Ala Ile Ala Met Ser Phe Thr Asp Trp Pro Trp Arg His Trp
 85 90 95
 Arg Thr Arg Arg Ala Asp Lys Pro Ala Leu Arg Leu Asp Asp Val Thr
 100 105 110
 Leu Ser Trp Thr Gln Leu Gly Lys Arg Ile Asp Arg Leu Ala Ala Gly
 115 120 125
 Phe Gln Ser Gln Gly Val Ala Asp Gly Asp Gly Val Met Leu Leu Ala
 130 135 140
 His Asn His Pro Gln Thr Leu Leu Ala Trp Leu Ala Leu Leu Gln Cys
 145 150 155 160
 Gly Ala Arg Ile Leu Pro Val Asn Pro Gln Leu Pro Arg Pro Leu Leu

```

      165      170      175
Asp Val Leu Leu Pro Gln Met Thr Leu Arg Phe Ala Leu Val Leu Asn
      180      185      190
Gly Glu Tyr Asp Gly Leu Pro Ala Leu Ala Leu Arg Glu Gly Glu Gly
      195      200      205
Gln Gly Gly Val Thr Trp Arg Ala Glu Arg Leu Ala Ser Met Thr Leu
      210      215      220
Thr Ser Gly Ser Thr Gly Leu Pro Lys Ala Ala Val His Thr Cys Ala
      225      230      235
Ala His Leu Ala Ser Ala Lys Gly Val Leu Ala Leu Met Pro Tyr Gly
      245      250      255
Asp Ser Asp Asp Trp Leu Leu Ser Leu Pro Leu Phe His Val Ser Gly
      260      265      270
Gln Gly Ile Leu Trp Arg Trp Leu Gln Gly Gly Arg Leu Thr Val
      275      280      285
Arg Glu Lys Gln Pro Leu Glu Gln Ala Leu Gln Gly Cys Thr His Ala
      290      295      300
Ser Leu Val Pro Thr Gln Leu Trp Arg Leu Leu Asn Ser His His Pro
      305      310      315
Val Ala Leu Lys Ala Val Leu Leu Gly Gly Ala Glu Ile Pro Val Ala
      325      330      335
Leu Thr Glu Gln Ala Arg Glu Gln Arg Ile Arg Thr Phe Cys Gly Tyr
      340      345      350
Gly Leu Thr Glu Phe Ala Ser Thr Val Cys Ala Lys Glu Ala Asp Gly
      355      360      365
Ala Pro Asp Val Gly Ser Ala Leu Pro Gly Arg Asp Val Gln Val Val
      370      375      380
Asn Gly Glu Val Trp Ile Arg Ala Glu Ser Met Ala Ala Gly Tyr Trp
      385      390      395
Arg Asp Gly Ala Leu Leu Pro Leu Val Asn Ala Gln Gly Trp Phe Ala
      405      410      415
Thr Arg Asp Arg Gly Glu Trp His Asp Gly Arg Leu Thr Ile Leu Gly
      420      425      430
Arg Met Asp Asn Leu Phe Phe Ser Gly Gly Glu Gly Ile Gln Pro Glu
      435      440      445
Ala Leu Glu Arg Val Ile Ala Thr His Pro Gln Val Ser Gln Ala Phe
      450      455      460
Val Val Pro Leu Asp Asp Ala Glu Tyr Gly Gln Arg Pro Val Ala Val
      465      470      475
Val Glu Cys Glu Pro Gly Thr Asp Ile Thr Leu Leu Pro Glu Trp Val
      485      490      495
Gln Gly Arg Leu Ala Arg Phe Glu Gln Pro Val His Trp Leu Thr Leu
      500      505      510
Pro Ser Glu Leu Lys Asn Gly Gly Ile Lys Ile Ser Arg Gln Ala Leu
      515      520      525
Lys Gln Trp Val Asn Ala Leu Leu Arg Gly
      530      535

```

<210> 9762

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 9762

```

Asp Arg Glu Gln Thr Asn His His Asp Asp Lys Leu His Ala Val Gly
1      5      10      15
Glu Met Asn Ala Val Glu Gly Lys Thr Ile Asn Pro Gly Val Gly Ile
20      25      30
His Ala Asp Gly Gly Gln Thr Glu Ala Asn Gln Arg Arg Gln Lys Arg
35      40      45
Leu Gln Arg Ile Leu Arg His His Ala Ala Glu Thr Gly Asp Gly Glu

```


50						55						60					
His	His	Gln	Gly	Lys	Ile	Leu	Gly	Arg	Thr	Lys	Arg	Gln	Arg	Pro	Leu		
65					70					75					80		
Gly	Gln	Arg	Arg	Gly	Glu	Glu	Asp	Asp	Ala	Ala	Asn	Gly	Asp	Gln	Gly		
				85					90					95			
Ala	Lys	Glu	Arg	Ala	Asp	Gly	Gly	Asn	Arg	Glu	Arg	His	Ala	Ala	Ala		
			100					105					110				
Ser	Leu	Leu	Arg	His	Trp	Ile	Ala	Ile	Gln	Arg	Gly	His	Asn	Gly	Gly		
	115					120					125						
Gly	Ile	Ala	Gly	His	Val	Lys	Gln	Asn	Arg	Gly	Asn	Thr	Pro	Pro	Val		
	130					135					140						
Phe	Ala	Ala	Asp	Ile	Asn	Arg	Arg	Gln	Gln	Asp	Gln	Arg	Arg	Phe	Arg		
145					150					155					160		
Arg	Gln	Val	Gln	Arg	Lys	Gly	Gln	Arg	Gln								
				165					170								

<210> 9763

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 9763

Asn	Asn	Asn	Leu	Ser	Phe	Pro	Phe	His	Cys	Asp	Thr	Asn	Phe	Thr	Gly		
1				5					10					15			
Cys	Asp	Met	Arg	Leu	Leu	Leu	Ala	Glu	Asp	Asn	Arg	Glu	Leu	Ala	His		
			20					25					30				
Trp	Leu	Glu	Lys	Ala	Leu	Val	Gln	Asn	Gly	Phe	Ala	Val	Asp	Cys	Val		
	35						40					45					
Asn	Asp	Gly	Arg	Ala	Ala	Asp	His	Leu	Leu	Gln	Gly	Glu	Asn	Tyr	Ala		
	50					55					60						
Val	Ala	Ile	Leu	Asp	Ile	Gly	Met	Pro	Gly	Phe	Asp	Gly	Leu	Glu	Val		
65				70						75					80		
Val	His	Arg	Leu	Arg	Lys	Arg	Gly	Gln	Thr	Leu	Pro	Val	Leu	Phe	Leu		
			85						90					95			
Thr	Ala	Arg	Ser	Asn	Val	Ala	Asp	Arg	Val	Lys	Gly	Leu	Asn	Ala	Gly		
			100					105					110				
Ala	Asp	Asp	Tyr	Leu	Pro	Lys	Pro	Phe	Glu	Leu	Glu	Glu	Leu	Asp	Ala		
	115					120						125					
Arg	Leu	Arg	Ala	Leu	Leu	Arg	Arg	Ser	Glu	Gly	Arg	Thr	Gln	Glu	Arg		
	130					135						140					
Gln	Arg	Leu	Gly	Glu	Leu	Glu	Tyr	Asp	Asp	Glu	Gly	Phe	Phe	Leu	Leu		
145					150					155					160		
Arg	Asp	Glu	Pro	Leu	Ser	Leu	Thr	Pro	Arg	Glu	Leu	Ser	Leu	Leu	Lys		
				165				170						175			
Val	Leu	Met	His	Arg	Arg	Thr	Arg	Pro	Val	Ser	Arg	Gln	Gln	Leu	Phe		
			180					185					190				
Asp	Gln	Val	Phe	Ser	Leu	Asn	Asp	Asp	Val	Ser	Pro	Glu	Ser	Ile	Asp		
	195					200						205					
Leu	Tyr	Ile	His	Arg	Leu	Arg	Lys	Lys	Leu	Thr	Gly	Ser	Gly	Val	Arg		
	210					215					220						
Ile	Thr	Thr	Leu	Arg	Gly	Leu	Gly	Tyr	Val	Leu	Glu	Cys	Gly	Asp	Glu		
225					230					235					240		
Val	Gly																

<210> 9764

<211> 122

<212> PRT

<213> Enterobacter cloacae

<400> 9764

Arg Arg Lys Gln Pro Val Met Ile Glu Gly Asp Asp Val Leu Leu Gly
 1 5 10 15
 Glu Leu Cys Ala Asn Leu Leu Glu Asn Ala Ile Lys Tyr Thr Pro Glu
 20 25 30
 Gln Gly Ile Val Thr Val Tyr Leu Arg Thr Ala Asn Asp Ala Val Glu
 35 40 45
 Leu Ser Val Glu Asp Ser Gly Pro Gly Ile Ala Glu Asp Gln Ile Ser
 50 55 60
 Gln Ala Met Leu Pro Phe His Arg Leu Glu Asn Val Gly Asp Ala Ala
 65 70 75 80
 Gly Ser Gly Ile Gly Leu Ala Leu Ala Asn Asp Ile Ala Arg Leu His
 85 90 95
 Arg Ser His Leu Gln Leu Met Pro Ser Glu Asn Leu Gly Gly Leu Ser
 100 105 110
 Val Lys Met Arg Phe Leu Met Leu Ile
 115 120

<210> 9765

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 9765

Met Pro Ile Leu Ser Asn Arg Tyr Lys Leu Ile Ala Cys Arg Thr Trp
 1 5 10 15
 Ser Pro Leu Ile Thr Gln Ala Gly Arg Leu Lys Ser Arg Gly Phe Trp
 20 25 30
 Thr Ser Leu Asn Lys Leu Cys Gly Ile Thr Thr Met Lys Lys Val Ala
 35 40 45
 Leu Met Gly Leu Ser Gly Leu Met Phe Val Ser Ala Ala Asn Ala
 50 55 60
 Ile Ser Phe Asn Gly Ser Ala Gly Gln Asp Tyr Thr His Leu Gly Phe
 65 70 75 80
 Gly Leu Gly Thr Asp Ser Ala Gly Leu Ala Met Thr Gly Gly Trp Thr
 85 90 95
 His Asn Asp Asp Asp Gly Asp Ala Ala Ser Leu Gly Leu Gly Phe Asn
 100 105 110
 Val Pro Leu Gly Pro Phe Leu Ala Thr Val Gly Gly Lys Gly Ile Tyr
 115 120 125
 Thr Asn Pro Asn Asp Gly Asp Glu Gly Tyr Ala Ala Val Gly Gly
 130 135 140
 Gly Leu Gln Trp Lys Ile Gly Asp Ser Phe Gly Leu Phe Gly Glu Tyr
 145 150 155 160
 Tyr Tyr Ser Pro Asp Ser Leu Ser Ser Gly Ile Asp Ser Tyr Gln Glu
 165 170 175
 Ala Asn Ala Gly Ala Arg Trp Thr Ile Met Arg Pro Ile Thr Ile Glu
 180 185 190
 Ala Gly Tyr Arg Tyr Leu Asn Leu Ala Gly Lys Asp Gly Asn Arg Asp
 195 200 205
 Asn Ala Leu Ala Asp Gly Pro Tyr Val Gly Val Ser Ala Gly Phe
 210 215 220

<210> 9766

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 9766

Lys Ala Thr Glu Ala Val Met Leu Ser Ile Phe Lys Pro Ala Pro His
 1 5 10 15
 Arg Ala Arg Leu Pro Glu Ala Glu Ile Asp Pro Leu Tyr Arg Arg Leu

```
<210> 9767
<211> 148
<212> PRT
<213> Enterobacter cloacae
```

<400> 9767

Ala Met Ser Met Ser Thr Ser Thr Glu Val Ile Ala His His Trp Ala
 1 5 10 15
 Phe Ala Ile Phe Leu Ile Val Ala Ile Gly Leu Cys Cys Leu Met Leu
 20 25 30
 Val Gly Gly Trp Phe Leu Gly Gly Arg Ala Arg Ala Arg His Lys Asn
 35 40 45
 Thr Pro Phe Glu Ser Gly Ile Asp Ser Val Gly Thr Ala Arg Leu Arg
 50 55 60
 Leu Ser Ala Lys Phe Tyr Leu Val Ala Met Phe Phe Val Ile Phe Asp
 65 70 75 80
 Val Glu Ala Leu Tyr Leu Phe Ala Trp Ser Thr Ser Ile Arg Glu Ser
 85 90 95
 Gly Trp Val Gly Phe Val Glu Ala Ala Ile Phe Ile Leu Val Leu Leu
 100 105 110
 Ala Gly Leu Val Tyr Leu Val Arg Ile Gly Ala Leu Asp Trp Thr Pro
 115 120 125
 Val Arg Ser Arg Arg Glu His Ile Asn Pro Glu Asn Ser Ile Ser Asn
 130 135 140
 Arg Gln Gln
 145

<210> 9768

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 9768

Gln Arg Gly Asn Lys Met Asp Tyr Thr Leu Thr Arg Ile Asp Pro Asn
 1 5 10 15
 Gly Glu Asn Asp Arg Tyr Pro Leu Gln Lys Gln Glu Ile Val Thr Asp
 20 25 30
 Pro Leu Glu Gln Glu Val Asn Lys Ser Val Tyr Met Gly Lys Leu Glu
 35 40 45
 His Ala Met His Asp Met Val Asn Trp Gly Arg Lys Asn Ser Ile Trp
 50 55 60
 Pro Tyr Asn Phe Gly Leu Ser Cys Cys Tyr Val Glu Met Val Thr Ser
 65 70 75 80
 Phe Thr Ala Val His Asp Val Ala Arg Phe Gly Ala Glu Val Leu Arg
 85 90 95
 Ala Ser Pro Arg Gln Ala Asp Leu Met Val Val Ala Gly Thr Cys Phe
 100 105 110
 Thr Lys Met Ala Pro Val Ile Gln Arg Leu Tyr Asp Gln Met Leu Glu
 115 120 125
 Pro Lys Trp Val Ile Ser Met Gly Ala Cys Ala Asn Ser Gly Gly Met
 130 135 140
 Tyr Asp Ile Tyr Ser Val Val Gln Gly Val Asp Lys Phe Ile Pro Val
 145 150 155 160
 Asp Val Tyr Ile Pro Gly Cys Pro Pro Arg Pro Glu Ala Tyr Met Gln
 165 170 175
 Ala Leu Met Leu Leu Gln Glu Ser Ile Gly Lys Glu Arg Arg Pro Leu
 180 185 190
 Ser Trp Val Val Gly Asp Gln Gly Val Tyr Arg Ala Asn Met Gln Ser
 195 200 205
 Glu Arg Glu Arg Lys Arg Gly Glu Arg Ile Ala Val Thr Asn Leu Arg
 210 215 220
 Thr Pro Asp Glu Ile
 225 230

<210> 9769

<211> 452

<212> PRT

<213> Enterobacter cloacae

<400> 9769

Pro Ala Gly Ala Val Gln Met Lys Thr Val Ile Arg Thr Ala Glu Thr
 1 5 10 15
 His Pro Leu Thr Trp Arg Leu Arg Asp Asp Lys Gln Pro Val Trp Leu
 20 25 30
 Asp Glu Tyr Gln Ser Lys Asn Gly Tyr Ala Gly Ala Arg Lys Ala Leu
 35 40 45
 Gly Gly Met Ala Pro Asp Asp Ile Val Asn Ala Val Lys Glu Ser Gly
 50 55 60
 Leu Lys Gly Arg Gly Gly Ala Gly Phe Ser Thr Gly Leu Lys Trp Ser
 65 70 75 80
 Leu Met Pro Lys Asp Glu Ser Met Asn Ile Arg Tyr Leu Leu Cys Asn
 85 90 95
 Ala Asp Glu Met Glu Pro Gly Thr Tyr Lys Asp Arg Leu Leu Met Glu
 100 105 110
 Gln Leu Pro His Leu Leu Val Glu Gly Met Leu Ile Ser Ala Phe Ala
 115 120 125
 Leu Lys Ala Tyr Arg Gly Tyr Ile Phe Leu Arg Gly Glu Tyr Ile Glu
 130 135 140
 Ala Ala Glu Asn Leu Arg Arg Ala Ile Ala Glu Ala Thr Glu Ala Gly
 145 150 155 160
 Leu Leu Gly Lys Asn Ile Leu Gly Thr Gly Phe Asp Phe Glu Leu Phe
 165 170 175
 Val His Thr Gly Ala Gly Arg Tyr Ile Cys Gly Glu Glu Thr Ala Leu
 180 185 190
 Ile Asn Ser Leu Glu Gly Arg Arg Ala Asn Pro Arg Ser Lys Pro Pro
 195 200 205
 Phe Pro Ala Ser Ser Gly Val Trp Gly Lys Pro Thr Cys Val Asn Asn
 210 215 220
 Val Glu Thr Leu Cys Asn Val Pro Ala Ile Leu Ala Asn Gly Val Glu
 225 230 235 240
 Trp Tyr Gln Gly Ile Ser Ser Ser Lys Asp Ala Gly Thr Lys Leu Met
 245 250 255
 Gly Phe Ser Gly Arg Val Lys Asn Pro Gly Val Trp Glu Leu Pro Phe
 260 265 270
 Gly Thr Thr Ala Arg Glu Ile Leu Glu Asp Tyr Ala Gly Gly Met Arg
 275 280 285
 Asp Gly Leu Lys Phe Lys Ala Trp Gln Pro Gly Gly Ala Gly Thr Asp
 290 295 300
 Phe Leu Thr Glu Ala His Leu Asp Leu Pro Met Glu Phe Glu Ser Ile
 305 310 315 320
 Gly Lys Ala Gly Ser Arg Leu Gly Thr Ala Leu Ala Met Ala Val Asp
 325 330 335
 His Glu Ile Gly Met Val Ser Leu Val Arg Asn Leu Glu Glu Phe Phe
 340 345 350
 Ala Arg Glu Ser Cys Gly Trp Cys Thr Pro Cys Arg Asp Gly Leu Pro
 355 360 365
 Trp Ser Val Lys Ile Leu Arg Ala Ile Glu Arg Gly Glu Gly Gln Pro
 370 375 380
 Gly Asp Ile Glu Thr Leu Glu Gln Leu Cys Arg Phe Leu Gly Pro Gly
 385 390 395 400
 Lys Thr Phe Cys Ala His Ala Pro Gly Ala Val Glu Pro Leu Gln Ser
 405 410 415
 Ala Ile Lys Tyr Phe Arg Asp Glu Phe Glu Ala Gly Ile Lys Gln Pro
 420 425 430
 Phe Ser Asn Thr His Ser Ile Asn Gly Ile Gln Pro Asn Leu Leu Lys
 435 440 445
 Ala Arg Trp

450

<210> 9770

<211> 920

<212> PRT

<213> Enterobacter cloacae

<400> 9770

Arg	Ser	Val	Ser	Ala	Glu	Pro	Thr	Gly	Ser	Met	Leu	Met	Ala	Thr	Ile
1			5						10					15	
His	Val	Asp	Gly	Lys	Glu	Tyr	Glu	Val	Asn	Gly	Ala	Asp	Asn	Leu	Leu
		20						25					30		
Glu	Ala	Cys	Leu	Ser	Leu	Gly	Leu	Asp	Ile	Pro	Tyr	Phe	Cys	Trp	His
		35					40					45			
Pro	Ala	Leu	Gly	Ser	Val	Gly	Ala	Cys	Arg	Gln	Cys	Ala	Val	Lys	Gln
		50				55					60				
Tyr	Gln	Asn	Ala	Glu	Asp	Thr	Arg	Gly	Arg	Leu	Val	Met	Ser	Cys	Met
65					70					75				80	
Thr	Pro	Ala	Ala	Glu	Gly	Thr	Phe	Ile	Ser	Ile	Asp	Asp	Glu	Glu	Ala
			85						90					95	
Lys	Gln	Phe	Arg	Glu	Ser	Val	Val	Glu	Trp	Leu	Met	Thr	Asn	His	Pro
			100					105					110		
His	Asp	Cys	Pro	Val	Cys	Glu	Glu	Gly	Gly	Asn	Cys	His	Leu	Gln	Asp
		115					120					125			
Met	Thr	Val	Met	Thr	Gly	His	Ser	Phe	Arg	Arg	Tyr	Arg	Phe	Thr	Lys
		130				135					140				
Arg	Thr	His	Arg	Asn	Gln	Asp	Leu	Gly	Pro	Phe	Ile	Ser	His	Glu	Met
145					150					155				160	
Asn	Arg	Cys	Ile	Ala	Cys	Tyr	Arg	Cys	Val	Arg	Tyr	Tyr	Lys	Asp	Tyr
			165						170					175	
Ala	Asp	Gly	Gln	Asp	Leu	Gly	Val	Tyr	Gly	Ala	His	Asp	Asn	Val	Tyr
			180					185					190		
Phe	Gly	Arg	Pro	Glu	Asp	Gly	Thr	Leu	Glu	Ser	Glu	Phe	Ser	Gly	Asn
		195					200					205			
Leu	Val	Glu	Ile	Cys	Pro	Thr	Gly	Val	Phe	Thr	Asp	Lys	Thr	His	Ser
		210				215					220				
Glu	Arg	Tyr	Asn	Arg	Lys	Trp	Asp	Met	Gln	Phe	Ala	Pro	Ser	Ile	Cys
225					230					235				240	
Gln	Gln	Cys	Ser	Leu	Gly	Cys	Asn	Thr	Ser	Pro	Gly	Glu	Arg	Tyr	Gly
			245						250					255	
Glu	Leu	Arg	Arg	Ile	Glu	Asn	Arg	Tyr	Asn	Gly	Thr	Val	Asn	His	Tyr
			260					265					270		
Phe	Leu	Cys	Asp	Arg	Gly	Arg	Phe	Gly	Tyr	Gly	Tyr	Val	Asn	Leu	Lys
		275					280					285			
Asp	Arg	Pro	Arg	Gln	Pro	Val	Gln	Arg	Arg	Gly	Asp	Asp	Val	Ile	Thr
		290				295					300				
Leu	Asn	Ala	Glu	Gln	Ala	Met	Gln	Gly	Ala	Ala	Asp	Ile	Leu	Arg	Gln
305					310					315				320	
Ser	Lys	Lys	Val	Ile	Gly	Ile	Gly	Ser	Pro	Arg	Ala	Ser	Ile	Glu	Ser
			325						330					335	
Asn	Phe	Ala	Leu	Arg	Glu	Leu	Val	Gly	Ala	Glu	Asn	Phe	Tyr	Thr	Gly
			340					345					350		
Ile	Ala	Gln	Gly	Glu	Gln	Glu	Arg	Leu	Gln	Leu	Val	Leu	Lys	Val	Leu
		355					360					365			
Arg	Glu	Gly	Gly	Val	His	Thr	Pro	Ala	Leu	Arg	Glu	Ile	Glu	Ser	Tyr
		370				375					380				
Asp	Ala	Val	Leu	Val	Leu	Gly	Glu	Asp	Leu	Thr	Gln	Thr	Gly	Ala	Arg
385					390					395				400	
Ala	Ala	Leu	Ala	Val	Arg	Gln	Ala	Val	Lys	Gly	Lys	Ala	Arg	Glu	Met
			405						410					415	
Ala	Ala	Ala	Gln	Lys	Val	Ala	Asp	Trp	Gln	Ile	Ala	Ala	Ile	Leu	Asn

Leu Met Val Ala Gly Leu Val Gly Ala Phe Met Thr Ser Leu Tyr Thr
 420 425 430
 Phe Arg Met Ile Phe Ile Val Phe His Gly Lys Glu Gln Ile His Ala
 435 440 445
 His Ala Gly Lys Gly Ile Thr His His Leu Pro Leu Ile Val Leu Leu
 450 455 460
 Val Leu Ser Thr Phe Val Gly Ala Met Ile Val Pro Pro Leu Gln Gly
 465 470 475 480
 Val Leu Pro Ala Thr Thr Glu Leu Glu His Gly Arg Val Leu Thr Leu
 485 490 495
 Glu Ile Thr Ser Gly Val Val Ala Ile Ala Gly Ile Leu Ile Ala Ala
 500 505 510
 Trp Leu Trp Leu Gly Lys Arg Thr Leu Val Thr Ala Val Ala Asn Ser
 515 520 525
 Ala Pro Gly Arg Leu Leu Gly Thr Trp Trp Tyr Asn Ala Trp Gly Phe
 530 535 540
 Asp Trp Leu Tyr Asp Met Ile Phe Val Lys Pro Phe Leu Gly Ile Ala
 545 550 555 560
 Trp Leu Leu Lys Arg Asp Pro Leu Asn Ser Leu Met Asn Ile Pro Ala
 565 570 575
 Ile Leu Ser Arg Phe Ala Gly Lys Gly Leu Leu Phe Ser Glu Asn Gly
 580 585 590
 Tyr Leu Arg Trp Tyr Val Ala Ser Met Ser Ile Gly Ala Val Val Val
 595 600 605
 Leu Ala Leu Leu Met Val Leu Arg
 610 615

<210> 9772

<211> 512

<212> PRT

<213> Enterobacter cloacae

<400> 9772

Ile Ala Met Leu Leu Pro Trp Leu Ile Leu Ile Pro Phe Ile Gly Gly
 1 5 10 15
 Phe Leu Cys Trp Gln Thr Glu Arg Phe Gly Val Lys Met Pro Arg Trp
 20 25 30
 Ile Ala Leu Ile Thr Met Gly Leu Thr Leu Ala Leu Gly Leu Gln Leu
 35 40 45
 Trp Leu Gln Gly Gly Tyr Ser Leu Thr Gln Ser Ala Gly Leu Pro Gln
 50 55 60
 Trp Gln Ser Glu Phe Ile Leu Pro Trp Ile Pro Arg Phe Gly Ile Thr
 65 70 75 80
 Ile His Leu Ala Ile Asp Gly Leu Ser Leu Leu Met Val Val Leu Thr
 85 90 95
 Gly Leu Leu Gly Val Leu Ala Val Leu Cys Ser Trp Arg Glu Ile Glu
 100 105 110
 Lys Tyr Gln Gly Phe Phe His Leu Asn Leu Met Trp Ile Leu Gly Gly
 115 120 125
 Val Ile Gly Val Phe Leu Ala Ile Asp Met Phe Leu Phe Phe Phe
 130 135 140
 Trp Glu Met Met Leu Val Pro Met Tyr Phe Leu Ile Ala Leu Trp Gly
 145 150 155 160
 His Lys Ala Ser Asp Gly Lys Thr Arg Ile Thr Ala Ala Thr Lys Phe
 165 170 175
 Phe Ile Tyr Thr Gln Ala Ser Gly Leu Val Met Leu Ile Ala Ile Leu
 180 185 190
 Ala Leu Val Phe Val His Tyr Asn Ala Thr Gly Val Trp Thr Phe Asn
 195 200 205
 Tyr Glu Asp Leu Leu Lys Thr Pro Met Ser His Gly Val Glu Tyr Leu
 210 215 220

Leu Met Leu Gly Phe Phe Ile Ala Phe Ala Val Lys Met Pro Val Val
 225 230 235 240
 Pro Leu His Gly Trp Leu Pro Asp Ala His Ser Gln Ala Pro Thr Ala
 245 250 255
 Gly Ser Val Asp Leu Ala Gly Ile Leu Leu Lys Thr Ala Ala Tyr Gly
 260 265 270
 Leu Leu Arg Phe Ser Leu Pro Leu Phe Pro Asn Ala Ser Ala Glu Phe
 275 280 285
 Ala Pro Ile Ala Met Trp Leu Gly Val Ile Gly Ile Phe Tyr Gly Ala
 290 295 300
 Trp Met Ala Phe Thr Gln Tyr Asp Ile Lys Arg Leu Ile Ala Tyr Thr
 305 310 315 320
 Ser Val Ser His Met Gly Phe Val Leu Ile Ala Ile Tyr Thr Gly Ser
 325 330 335
 Gln Leu Ala Tyr Gln Gly Ala Val Ile Gln Met Ile Ala His Gly Leu
 340 345 350
 Ser Ala Ala Gly Leu Phe Ile Leu Cys Gly Gln Leu Tyr Glu Arg Leu
 355 360 365
 His Thr Arg Asp Met Arg Met Met Gly Gly Leu Trp Gly Lys Met Lys
 370 375 380
 Trp Leu Pro Ala Leu Ser Met Phe Phe Ala Val Ala Thr Leu Gly Met
 385 390 395 400
 Pro Gly Thr Gly Asn Phe Val Gly Glu Phe Met Ile Leu Phe Gly Ser
 405 410 415
 Phe Asn Val Val Pro Thr Ile Thr Val Ile Ser Thr Phe Gly Leu Val
 420 425 430
 Phe Ala Ser Val Tyr Ser Leu Ala Met Leu His Arg Ala Tyr Phe Gly
 435 440 445
 Lys Ala Lys Ser Glu Ile Ala Ala Gln Glu Leu Pro Gly Met Ser Leu
 450 455 460
 Arg Glu Leu Phe Ile Ile Leu Leu Val Val Leu Leu Val Leu Leu
 465 470 475 480
 Gly Phe Tyr Pro Gln Pro Ile Leu Asp Thr Ser His Ser Ala Met Gly
 485 490 495
 Asn Ile Gln Gln Trp Phe Val Asn Ser Ala Ser Thr Thr Arg Pro
 500 505 510

<210> 9773

<211> 488

<212> PRT

<213> Enterobacter cloacae

<400> 9773

Phe Ala Met Thr Ile Thr Pro Gln Gln Leu Ile Ala Leu Leu Pro Leu
 1 5 10 15
 Leu Ile Val Gly Leu Thr Val Val Val Met Leu Ser Ile Ala Trp
 20 25 30
 Arg Arg Asn His Phe Leu Asn Ala Thr Leu Ser Val Leu Gly Leu Asn
 35 40 45
 Ala Ala Leu Val Ser Leu Trp Phe Val Gly Gln Ala Gly Ala Met Asp
 50 55 60
 Val Thr Pro Leu Met Arg Val Asp Gly Tyr Ala Met Leu Tyr Thr Gly
 65 70 75 80
 Leu Val Leu Leu Ala Ser Leu Ala Thr Cys Thr Phe Ala Tyr Pro Trp
 85 90 95
 Leu Glu Gly Tyr Asn Asp Asn Lys Glu Glu Phe Tyr Leu Leu Val Leu
 100 105 110
 Ile Ala Ala Leu Gly Gly Ile Leu Leu Ala Asn Ala Asn His Met Ala
 115 120 125
 Ala Leu Phe Leu Gly Ile Glu Leu Ile Ser Leu Pro Leu Phe Gly Leu
 130 135 140

Ile Gly Tyr Ala Phe Arg Gln Lys Arg Ser Leu Glu Ala Ala Ile Lys
 145 150 155 160
 Tyr Thr Ile Leu Ser Ala Ala Ser Ser Phe Leu Leu Phe Gly Ile
 165 170 175
 Ala Leu Leu Tyr Ala Gln Thr Gly Asn Leu Ser Phe Leu Ala Ile Gly
 180 185 190
 Lys Ser Leu Gly Asp Gly Met Met His Glu Pro Leu Leu Ala Gly
 195 200 205
 Leu Gly Met Met Ile Val Gly Leu Gly Phe Lys Leu Ser Leu Val Pro
 210 215 220
 Phe His Leu Trp Thr Pro Asp Val Tyr Gln Gly Ala Pro Ala Pro Val
 225 230 235 240
 Ser Thr Phe Leu Ala Thr Ala Ser Lys Ile Ala Ile Phe Gly Val Val
 245 250 255
 Met Arg Leu Phe Leu Tyr Ala Pro Val Gly Asp Ser Glu Ala Val Arg
 260 265 270
 Val Val Leu Gly Ile Ile Ala Phe Val Ser Ile Ile Phe Gly Asn Leu
 275 280 285
 Met Ala Leu Ser Gln Thr Asn Ile Lys Arg Leu Leu Gly Tyr Ser Ser
 290 295 300
 Ile Ser His Leu Gly Tyr Leu Leu Val Ala Leu Ile Ala Leu Gln Ser
 305 310 315 320
 Gly Glu Met Ser Met Glu Thr Val Gly Val Tyr Leu Ala Gly Tyr Leu
 325 330 335
 Phe Ser Ser Leu Gly Ala Phe Gly Val Val Ser Leu Met Ser Ser Pro
 340 345 350
 Tyr Arg Gly Pro Asp Ala Asp Ser Leu Phe Ser Tyr Arg Gly Leu Phe
 355 360 365
 Trp His Arg Pro Ile Leu Ser Ala Val Met Thr Val Met Met Leu Ser
 370 375 380
 Leu Ala Gly Ile Pro Met Thr Leu Gly Phe Ile Gly Lys Phe Tyr Val
 385 390 395 400
 Leu Ala Val Gly Val Gln Ala Gly Leu Trp Trp Leu Thr Ala Gly Val
 405 410 415
 Val Ile Gly Ser Ala Ile Gly Leu Tyr Tyr Tyr Leu Arg Val Ala Val
 420 425 430
 Ser Leu Tyr Leu Ser Ala Pro Gln Gln Leu Asn Arg Asp Ala Pro Ser
 435 440 445
 Asn Trp Gln Tyr Ser Ala Gly Gly Ile Val Val Leu Ile Ser Ala Leu
 450 455 460
 Leu Val Leu Ile Phe Gly Ile Tyr Pro Gln Pro Leu Ile Asp Ile Val
 465 470 475 480
 Gln Arg Ala Met Pro Leu Met
 485

<210> 9774

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 9774

Leu Pro Asp Trp Cys Thr Asn Met Glu Lys Asn Met Ser Phe Gln Ser
 1 5 10 15
 Trp Asp Thr Arg Val Asp Asp Asp Leu Thr Leu Leu Ser Glu Thr Leu
 20 25 30
 Glu Glu Val Leu Arg Ser Ser Gly Asp Pro Ala Asp Gln Lys Tyr Ile
 35 40 45
 Glu Leu Lys Ala Arg Ala Glu Gln Ala Leu His Asp Val Lys Asn Arg
 50 55 60
 Val Ser Asn Ala Ser Asp Asn Tyr Tyr Tyr Arg Ala Lys Gln Ala Val
 65 70 75 80

Tyr	Arg	Ala	Asp	Asp	Tyr	Val	His	Glu	Lys	Pro	Trp	Gln	Gly	Ile	Gly
			85						90					95	
Val	Gly	Ala	Ala	Val	Gly	Leu	Val	Leu	Gly	Leu	Leu	Leu	Ala	Arg	Arg
			100					105					110		

<210> 9775

<211> 589

<212> PRT

<213> Enterobacter cloacae

<400> 9775

Gly	Ile	Asn	Thr	Asp	Ser	Cys	Asn	Pro	Asp	Ser	Tyr	Gln	Asn	Ser	Asp
1				5					10					15	
Phe	Phe	Tyr	Tyr	Leu	Tyr	Cys	Val	Ala	Phe	Leu	Ile	Leu	Asp	Asn	Leu
			20					25					30		
Met	Ser	Val	Ser	Ser	Phe	Asn	Arg	Arg	Trp	Ala	Ala	Val	Ile	Leu	Glu
		35					40					45			
Ala	Leu	Thr	Arg	His	Gly	Val	Arg	His	Val	Cys	Ile	Ala	Pro	Gly	Ser
	50					55					60				
Arg	Ser	Thr	Pro	Leu	Thr	Leu	Ala	Ala	Ala	Glu	Asn	Arg	Ala	Phe	Ile
65					70					75					80
His	His	Thr	His	Phe	Asp	Glu	Arg	Gly	Leu	Gly	His	Leu	Ala	Leu	Gly
				85					90					95	
Leu	Ala	Lys	Val	Ser	Lys	Ala	Pro	Val	Ala	Val	Ile	Val	Thr	Ser	Gly
			100					105					110		
Thr	Ala	Val	Ala	Asn	Leu	Tyr	Pro	Ala	Leu	Ile	Glu	Ala	Gly	Leu	Thr
		115					120					125			
Gly	Glu	Lys	Leu	Ile	Leu	Leu	Thr	Ala	Asp	Arg	Pro	Pro	Glu	Leu	Ile
	130					135					140				
Asp	Cys	Gly	Ala	Asn	Gln	Ala	Ile	Arg	Gln	Pro	Gly	Ile	Phe	Ala	Ser
145					150					155					160
His	Pro	Ser	Gln	Thr	Val	Ser	Leu	Pro	Arg	Pro	Thr	Gln	Asp	Ile	Pro
				165					170					175	
Ala	Ser	Trp	Leu	Val	Ser	Thr	Leu	Asp	His	Ala	Met	Asn	Ala	Leu	Arg
			180					185					190		
Ser	Gly	Gly	Leu	His	Ile	Asn	Cys	Pro	Phe	Ala	Glu	Pro	Leu	Tyr	Gly
		195					200					205			
Glu	Met	Asn	Asp	Thr	Gly	Leu	Val	Trp	Gln	Gln	Gln	Leu	Gly	Asp	Trp
	210					215					220				
Trp	Glu	Ser	Glu	Lys	Pro	Trp	Leu	Arg	Glu	Gln	Thr	His	Leu	Glu	Ser
225					230					235					240
Ala	Lys	Gln	Arg	Asp	Trp	Phe	Phe	Trp	Arg	Gln	Lys	Arg	Gly	Val	Val
				245					250					255	
Ile	Ala	Gly	Arg	Met	Ser	Ala	Ala	Glu	Gly	Lys	Leu	Ala	Ala	Glu	Trp
			260					265					270		
Ala	Gln	Thr	Leu	Gly	Trp	Pro	Leu	Ile	Gly	Asp	Val	Leu	Ser	Gln	Thr
		275					280					285			
Gly	Gln	Pro	Leu	Pro	Cys	Ala	Asp	Leu	Trp	Leu	Gly	Asn	Ala	Lys	Ala
	290					295					300				
Val	Thr	Glu	Leu	Ala	Gln	Ala	Gln	Ile	Val	Val	Gln	Leu	Gly	Ser	Ser
305					310					315					320
Leu	Thr	Gly	Lys	Arg	Leu	Leu	Gln	Trp	Gln	Ala	Thr	Cys	Thr	Pro	Glu
				325					330					335	
Glu	Tyr	Trp	Leu	Val	Asp	Pro	Leu	Glu	Gly	Arg	Leu	Asp	Pro	Ala	His
			340					345					350		
His	Arg	Gly	Arg	Arg	Leu	Val	Ser	Asp	Ile	Asn	Ser	Trp	Leu	Glu	Leu
		355					360					365			
His	Pro	Ala	Glu	Lys	Arg	Lys	Pro	Trp	Ala	Val	Glu	Ile	Pro	Ala	Leu
						375						380			

Ser Arg Gln Ala Trp Glu Leu Thr Lys Ala Gln Cys Glu Ala Phe Ser
 385 390 395 400
 Glu Ala Gly Leu Ala His Arg Ile Arg Lys Tyr Leu Pro Glu Gln Gly
 405 410 415
 Gln Leu Phe Val Gly Asn Ser Leu Val Val Arg Leu Ile Asp Ala Phe
 420 425 430
 Ser Gln Leu Pro Ala Gly Tyr Pro Val Tyr Ser Asn Arg Gly Ala Ser
 435 440 445
 Gly Ile Asp Gly Leu Ile Ser Thr Ala Ala Gly Val Gln Arg Ala Ser
 450 455 460
 Ala Lys Ser Thr Leu Ala Ile Val Gly Asp Leu Ser Ala Leu Tyr Asp
 465 470 475 480
 Leu Asn Ala Leu Ala Leu Arg Gln Ala Ser Ala Pro Phe Val Leu
 485 490 495
 Ile Ile Val Asn Asn Asn Gly Gly Gln Ile Phe Ser Leu Leu Pro Thr
 500 505 510
 Pro Gln Ser Glu Arg Glu Arg Phe Tyr Leu Met Pro Gln Asn Val Gln
 515 520 525
 Phe Glu His Ala Ala Ala Met Phe Ser Leu Lys Tyr His Arg Pro Glu
 530 535 540
 Asn Trp Asp Ala Leu Glu Thr Ala Leu Asn Thr Ala Trp Arg Gln Pro
 545 550 555 560
 Gly Ala Thr Leu Ile Glu Leu Val Val Asn Asp Ala Asp Gly Ala Gln
 565 570 575
 Lys Leu Gln His Leu Leu Ala Gln Val Ser His Leu
 580 585

<210> 9776

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 9776

Arg His His Ala Val Leu Tyr Asp Arg Arg Gly Ser Gly Arg Ala Gln
 1 5 10 15
 Arg Val Gln Arg Lys Thr Pro Ala Arg Leu Gln Gln Ile Gln Thr Glu
 20 25 30
 Pro Val Met Arg Arg Val Gln Val Tyr Arg Trp Gln Ile Pro Met Asp
 35 40 45
 Ala Gly Val Val Leu Arg Glu Gly Glu Arg Glu Gly Trp Gly Glu Ile Ala
 50 55 60 65
 Phe Val His Leu Arg Glu Gly Glu Arg Glu Gly Trp Gly Glu Ile Ala
 70 75 80
 Pro Leu Pro Gly Phe Ser Leu Glu Thr Leu Asp Glu Ala Gln Ala Ala
 85 90 95
 Leu Met Ala Trp Thr His Ala Trp Arg Glu Gly Glu Asp Pro Ala Leu
 100 105 110
 Pro Asp Val Pro Ser Val Ala Phe Gly Ile Ser Cys Ala Leu Ala Glu
 115 120 125
 Leu Asp Gly Ser Leu Pro Glu Ala Ala Asn Tyr Arg Ala Ala Pro Leu
 130 135 140
 Cys Thr Gly Asp Pro Asp Glu Leu Phe Ala Leu Leu Ser Ala Met Pro
 145 150 155 160
 Gly Glu Lys Val Ala Lys Ile Lys Val Gly Leu Tyr Glu Ala Val Arg
 165 170 175
 Asp Gly Met Val Val Asn Leu Leu Glu Ala Ile Pro Asp Leu His
 180 185 190
 Leu Arg Leu Asp Ala Asn Arg Ala Trp Thr Pro Leu Arg Ala Gln Gln
 195 200 205
 Phe Ala Lys Tyr Val Asn Pro Ala Tyr Arg Ser Arg Ile Ala Phe Leu
 210 215 220

Glu Glu Pro Cys Lys Thr Arg Asp Asp Ser Arg Ala Phe Ala Arg Glu
 225 230 235 240
 Thr Gly Ile Ala Ile Ala Trp Asp Glu Ser Leu Arg Glu Ala Asp Phe
 245 250 255
 Ala Phe Ala Ala Glu Pro Gly Val Arg Ala Val Val Ile Lys Pro Thr
 260 265 270
 Leu Thr Gly Ser Leu Asp Lys Val Arg Glu Gln Val Ala Ala Ala His
 275 280 285
 Ala Ala Gly Leu Thr Ala Val Ile Ser Ser Ser Ile Glu Ser Ser Leu
 290 295 300
 Gly Leu Thr Gln Leu Ala Arg Ile Ala Ala Trp Leu Thr Pro Asp Thr
 305 310 315 320
 Val Pro Gly Leu Asp Thr Leu Asn Leu Met Gln Ala Gln Leu Ile Arg
 325 330 335
 Gln Trp Pro Gly Ser Thr Leu Pro Cys Leu Asp Val Gly Ala Leu Glu
 340 345 350
 Pro Leu Arg
 355

<210> 9777

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 9777

Pro Ala Ala Ala Cys Gly Ser Pro Pro Ser Gly Gly Trp Ala Thr Cys
 1 5 10 15
 Trp Ser Ala Ala Met Lys Trp Val Lys Pro Gln Ser Leu Tyr Leu Gln
 20 25 30
 Leu Leu Leu Phe Leu Gly Leu Pro Leu Leu Leu Trp Gly Leu Ser
 35 40 45
 Ala Phe Asn Ser Tyr Val Ser Ala Leu Gln Ala Ala Thr Gln Ala Tyr
 50 55 60
 Asp Arg Thr Leu Leu Ser Ser Ala Arg Thr Val Ser Glu Arg Leu Val
 65 70 75 80
 Val His Asn Gly Lys Leu Gln Val Asn Val Pro Trp Val Val Leu Asp
 85 90 95
 Ser Phe Glu Leu Asn Met Asn Asp Arg Leu Tyr Tyr Lys Val Val Asp
 100 105 110
 Pro Asp Gly Arg Thr Ile Ser Gly Tyr Asp Asp Leu Pro Asn Met Pro
 115 120 125
 Pro Ser Thr Ser Arg Thr Ser His Tyr Pro Ala Leu Ala Trp Phe Tyr
 130 135 140
 His Thr Glu Tyr Arg Gly Gln Ala Ile Arg Val Ala Lys Leu Leu Gln
 145 150 155 160
 Pro Val Asn Glu Asp Ser Val Phe Gly Met Ala Glu Ile Tyr Val Ala
 165 170 175
 Glu Thr Leu Gln Ser Arg Arg Tyr Leu Ala Thr Gln Leu Leu Phe Ser
 180 185 190
 Ser Leu Val Ser Gln Gly Leu Leu Val Leu Leu Thr Leu Val Leu Thr
 195 200 205
 Ala Trp Leu Leu Arg Arg Val Leu Arg Pro Met Arg Gln Leu Ser Ser
 210 215 220
 Leu Met Val Arg Arg Glu Pro Gly Leu Leu Ala Pro Leu Pro Glu Leu
 225 230 235 240
 Leu Pro Trp Ser Glu Thr Arg Leu Leu Ile Val Ala Phe Asn Arg Tyr
 245 250 255
 Ile Asp Arg Leu Arg Gly Val Leu Ser Arg Gln Ala Arg Phe Asn Ala
 260 265 270
 Asp Ala Ser His Gln Leu Lys Thr Pro Leu Ala Val Leu Lys Thr Gln
 275 280 285

Leu Asp Glu Glu His Leu Asn Phe Ala Leu Ala Thr Pro Glu Gly Thr
 340 345 350
 His Ala Leu Arg Val Arg Met Ser Ile Thr Arg His Ser Leu Ala Val
 355 360 365
 Arg Gln Glu Val Cys Ala Met Met Ala Leu Asn Met Leu Arg Arg Trp
 370 375 380
 Leu Asn Gly Lys Glu Val Ala Ser Glu His Gly Trp Ile Asn Val Val
 385 390 395 400
 Glu Ser Leu Phe Val Glu
 405

<210> 9779

<211> 879

<212> PRT

<213> Enterobacter cloacae

<400> 9779

Met Ser Asp Leu Ala Arg Glu Ile Thr Pro Val Asn Ile Glu Glu Glu
 1 5 10 15
 Leu Lys Ser Ser Tyr Leu Asp Tyr Ala Met Ser Val Ile Val Gly Arg
 20 25 30
 Ala Leu Pro Asp Val Arg Asp Gly Leu Lys Pro Val His Arg Arg Val
 35 40 45
 Leu Tyr Ala Met Asn Val Leu Gly Asn Asp Trp Asn Lys Ala Tyr Lys
 50 55 60
 Lys Ser Ala Arg Val Val Gly Asp Val Ile Gly Lys Tyr His Pro His
 65 70 75 80
 Gly Asp Ile Ala Val Tyr Gly Thr Ile Val Arg Met Ala Gln Pro Phe
 85 90 95
 Ser Leu Arg Tyr Met Leu Val Asp Gly Gln Gly Asn Phe Gly Ser Ile
 100 105 110
 Asp Gly Asp Ser Ala Ala Ala Met Arg Tyr Thr Glu Ile Arg Leu Ala
 115 120 125
 Lys Ile Ala His Glu Leu Met Ala Asp Leu Glu Lys Glu Thr Val Asp
 130 135 140
 Phe Val Asp Asn Tyr Asp Gly Thr Glu Lys Ile Pro Asp Val Met Pro
 145 150 155
 Thr Lys Ile Pro Asn Leu Leu Val Asn Gly Ser Ser Gly Ile Ala Val
 165 170 175
 Gly Met Ala Thr Asn Ile Pro Pro His Asn Ile Thr Glu Val Ile Asn
 180 185 190
 Gly Cys Leu Ala Tyr Ile Asp Asp Glu Asp Ile Ser Ile Glu Gly Leu
 195 200 205
 Met Glu His Ile Pro Gly Pro Asp Phe Pro Thr Ala Ala Ile Ile Asn
 210 215 220
 Gly Arg Arg Gly Ile Glu Glu Ala Tyr Arg Thr Gly Arg Gly Lys Ile
 225 230 235 240
 Tyr Ile Arg Ala Arg Ala Glu Val Glu Ala Asp Ala Lys Thr Gly Arg
 245 250 255
 Glu Thr Ile Ile Val His Glu Ile Pro Tyr Gln Val Asn Lys Ala Arg
 260 265 270
 Leu Ile Glu Lys Ile Ala Glu Leu Val Lys Glu Lys Arg Val Glu Gly
 275 280 285
 Ile Ser Ala Leu Arg Asp Glu Ser Asp Lys Asp Gly Met Arg Ile Val
 290 295 300
 Ile Glu Ile Lys Arg Asp Ala Val Gly Glu Val Val Leu Asn Asn Leu
 305 310 315 320
 Tyr Ser Gln Thr Gln Leu Gln Val Ser Phe Gly Ile Asn Met Val Ala
 325 330 335
 Leu His His Gly Gln Pro Lys Ile Met Asn Leu Lys Glu Ile Leu Ser
 340 345 350

Ala Phe Val Arg His Arg Arg Glu Val Val Thr Arg Arg Thr Ile Phe
 355 360 365
 Glu Leu Arg Lys Ala Arg Asp Arg Ala His Ile Leu Glu Ala Leu Ala
 370 375 380
 Val Ala Leu Ala Asn Ile Asp Pro Ile Ile Glu Leu Ile Arg Arg Ala
 385 390 395 400
 Pro Thr Pro Ala Glu Ala Lys Ala Ser Leu Val Ala Arg Ser Trp Asp
 405 410 415
 Leu Gly Asn Val Ala Ala Met Leu Glu Arg Ala Gly Asp Asp Ala Ala
 420 425 430
 Arg Pro Glu Trp Leu Glu Pro Glu Phe Gly Val Arg Asp Gly Gln Tyr
 435 440 445
 Tyr Leu Thr Glu Gln Gln Ala Gln Ala Ile Leu Asp Leu Arg Leu Gln
 450 455 460
 Lys Leu Thr Gly Leu Glu His Glu Lys Leu Leu Asp Glu Tyr Lys Glu
 465 470 475 480
 Leu Leu Glu Gln Ile Ala Glu Leu Leu His Ile Leu Gly Ser Ala Glu
 485 490 495
 Arg Leu Met Glu Val Ile Arg Glu Glu Leu Glu Leu Val Arg Asp Gln
 500 505 510
 Phe Gly Asp Glu Arg Arg Thr Glu Ile Thr Ala Asn Ser Ser Asp Ile
 515 520 525
 Asn Ile Glu Asp Leu Ile Asn Arg Glu Asp Val Val Val Thr Leu Ser
 530 535 540
 His Gln Gly Tyr Val Lys Tyr Gln Pro Leu Thr Asp Tyr Glu Ala Gln
 545 550 555 560
 Arg Arg Gly Gly Lys Gly Lys Ser Ala Ala Arg Ile Lys Glu Glu Asp
 565 570 575
 Phe Ile Asp Arg Leu Leu Val Ala Asn Thr His Asp Thr Ile Leu Cys
 580 585 590
 Phe Ser Ser Arg Gly Arg Leu Tyr Trp Met Lys Val Tyr Gln Leu Pro
 595 600 605
 Glu Ala Ser Arg Gly Ala Arg Gly Arg Pro Ile Val Asn Leu Leu Pro
 610 615 620
 Leu Glu Ala Asn Glu Arg Ile Thr Ala Ile Leu Pro Val Arg Glu Tyr
 625 630 635 640
 Glu Glu Gly Val Asn Val Phe Met Ala Thr Ala Ser Gly Thr Val Lys
 645 650 655
 Lys Thr Ala Leu Thr Glu Phe Ser Arg Pro Arg Ser Ala Gly Ile Ile
 660 665 670
 Ala Val Asn Leu Asn Glu Gly Asp Glu Leu Ile Gly Val Asp Leu Thr
 675 680 685
 Ser Gly Ser Asp Glu Val Met Leu Phe Ser Ala Ala Gly Lys Val Val
 690 695 700
 Arg Phe Lys Glu Asn Ala Val Arg Ala Met Gly Arg Thr Ala Thr Gly
 705 710 715 720
 Val Arg Gly Ile Lys Leu Ala Gly Glu Asp Ser Val Val Ser Leu Ile
 725 730 735
 Val Pro Arg Gly Glu Gly Ala Ile Leu Thr Val Thr Gln Asn Gly Tyr
 740 745 750
 Gly Lys Arg Thr Ala Glu Ser Glu Tyr Pro Thr Lys Ser Arg Gly Thr
 755 760 765
 Gln Gly Val Ile Ser Ile Lys Val Thr Glu Arg Asn Gly Ser Val Val
 770 775 780
 Gly Ala Val Gln Val Asp Asp Ala Asp Gln Ile Met Met Ile Thr Asp
 785 790 795 800
 Ala Gly Thr Leu Val Arg Thr Arg Val Ser Glu Ile Ser Val Val Gly
 805 810 815
 Arg Asn Thr Gln Gly Val Ile Leu Ile Arg Thr Ala Glu Asp Glu Asn
 820 825 830
 Val Val Gly Leu Gln Arg Val Ala Glu Pro Val Asp Asp Glu Glu Leu

835 840 845
 Asp Ser Ile Asp Gly Ser Val Ala Glu Gly Asp Asp Glu Ile Ala Pro
 850 855 860
 Glu Ala Asp Ile Asp Asp Glu Ala Ala Asp Asp Ala Asp Glu
 865 870 875

<210> 9780

<211> 957

<212> PRT

<213> Enterobacter cloacae

<400> 9780

Pro Arg Arg Arg Ser Leu Ala Pro Leu Lys Tyr Leu Val Ser Phe Arg
 1 5 10 15
 Thr Thr Leu Lys Val Ser Arg Tyr Leu Phe Arg Ala Leu Ala Leu Leu
 20 25 30
 Leu Trp Leu Leu Val Ala Leu Leu Ser Val Phe Tyr Ile Val Asn Ala
 35 40 45
 Leu His Gln Lys Glu Ala Glu Ile Arg Gln Glu Phe Asn Leu Ser Ser
 50 55 60
 Asp Gln Ala Gln Arg Tyr Ile Gln Arg Thr Ser Asp Val Met Lys Glu
 65 70 75 80
 Leu Lys Tyr Ile Ala Glu Asn Arg Leu Thr Ala Glu Asn Gly Ile Leu
 85 90 95
 Ala Ile Arg Gly Arg Asp Glu Lys Thr Glu Val Pro Asp Phe Glu Pro
 100 105 110
 Leu Phe Pro Asp Ser Asp Cys Ser Ala Met Gly Lys Ala Trp Arg Gly
 115 120 125
 Ser Leu Glu Ser Leu Ser Trp Phe Met Arg Tyr Trp Arg Asp Asn Phe
 130 135 140
 Ser Ala Ala Tyr Asp Leu Asn Arg Val Tyr Leu Ile Ser Asn Glu Asn
 145 150 155 160
 Leu Cys Met Ala Asp Phe Gly Leu Arg Asp Met Pro Val Glu Arg Glu
 165 170 175
 Asp Ala Leu Lys Ser Leu His Glu Arg Ile Val Lys Tyr Arg Asn Ala
 180 185 190
 Pro Gln Glu Glu Arg Gly Asn Asn Ile Phe Trp Ile Ser Gln Gly Pro
 195 200 205
 Arg Met Gly Val Gly Tyr Phe Tyr Ala Leu Thr Pro Val Tyr Leu Gly
 210 215 220
 Asn Arg Leu Gln Ala Leu Leu Gly Ile Glu Gln Thr Ile Arg Met Glu
 225 230 235 240
 Asn Phe Phe Thr Pro Gly Ser Leu Pro Met Gly Val Thr Ile Leu Asp
 245 250 255
 Glu Asn Gly His Pro Leu Ile Ser Leu Thr Gly Pro Glu Asn Arg Leu
 260 265 270
 Lys Val Glu Pro Ser Trp Met Gln Glu Arg Ser Trp Phe Gly Tyr Thr
 275 280 285
 Ser Gly Phe Arg Glu Leu Val Leu Lys Lys Ser Leu Pro Pro Ser Ser
 290 295 300
 Leu Ser Ile Val Tyr Ser Leu Pro Val Asp Lys Val Leu Glu Arg Ile
 305 310 315 320
 Arg Ile Leu Ile Leu Asn Ala Ile Leu Leu Asn Ile Ala Val Gly Val
 325 330 335
 Ala Leu Phe Met Leu Ala Arg Met Tyr Glu Arg Arg Ile Phe Ile Pro
 340 345 350
 Ala Glu Ala Asp Ala Gln Arg Leu Glu Glu His Glu Gln Phe Asn Arg
 355 360 365
 Lys Ile Val Ala Ser Ala Pro Val Gly Ile Cys Ile Leu Arg Thr Gln
 370 375 380
 Asp Gly Thr Asn Ile Leu Ser Asn Glu Leu Ala His Asn Tyr Leu Asn

385					390					395					400
Met	Leu	Thr	His	Glu	Asp	Arg	Gln	Arg	Leu	Thr	Gln	Ile	Ile	Cys	Gly
				405					410					415	
Gln	Gln	Val	Asn	Phe	Val	Asp	Val	Leu	Thr	Ser	Thr	His	Thr	Asn	Leu
			420					425					430		
Gln	Ile	Ser	Phe	Val	His	Ser	Arg	Tyr	Arg	Asn	Glu	Asn	Val	Ala	Ile
		435					440					445			
Cys	Val	Leu	Val	Asp	Val	Ser	Ala	Arg	Val	Lys	Met	Glu	Glu	Ser	Leu
	450				455						460				
Gln	Asp	Met	Ala	Gln	Ala	Glu	Gln	Ala	Ser	Gln	Ser	Lys	Ser	Met	
465				470				475						480	
Phe	Leu	Ala	Thr	Val	Ser	His	Glu	Leu	Arg	Thr	Pro	Leu	Tyr	Gly	Ile
			485					490						495	
Ile	Gly	Asn	Leu	Asp	Leu	Leu	Gln	Thr	Lys	Glu	Leu	Pro	Lys	Gly	Val
		500						505					510		
Asp	Arg	Leu	Val	Thr	Ala	Met	Asn	Asn	Ser	Ser	Ser	Leu	Leu	Leu	Lys
		515						520				525			
Ile	Ile	Ser	Asp	Ile	Leu	Asp	Phe	Ser	Lys	Ile	Glu	Ser	Glu	Gln	Leu
	530					535					540				
Lys	Ile	Glu	Pro	Arg	Glu	Phe	Ser	Pro	Arg	Glu	Val	Met	Asn	His	Ile
545				550					555					560	
Cys	Ala	Asn	Tyr	Leu	Pro	Leu	Val	Val	Arg	Lys	Gln	Leu	Gly	Leu	Tyr
			565					570						575	
Cys	Phe	Ile	Glu	Pro	Asp	Val	Pro	Leu	Thr	Leu	His	Gly	Asp	Pro	Met
		580						585					590		
Arg	Leu	Gln	Gln	Val	Ile	Ser	Asn	Leu	Leu	Ser	Asn	Ala	Ile	Lys	Phe
		595					600					605			
Thr	Asp	Ile	Gly	Cys	Ile	Val	Leu	His	Val	Cys	Arg	Ala	Gly	Glu	Tyr
	610				615						620				
Leu	Thr	Ile	Arg	Val	Arg	Asp	Thr	Gly	Val	Gly	Ile	Pro	Ala	Lys	Glu
625				630					635					640	
Val	Val	Arg	Leu	Phe	Asp	Pro	Phe	Phe	Gln	Val	Gly	Thr	Gly	Val	Gln
			645					650						655	
Arg	Asn	Phe	Gln	Gly	Thr	Gly	Leu	Gly	Leu	Ala	Ile	Cys	Glu	Lys	Leu
		660					665						670		
Ile	Ser	Met	Met	Asp	Gly	Asp	Ile	Ser	Val	Asp	Thr	Glu	Pro	Gly	Met
		675					680					685			
Gly	Ser	Gln	Phe	Thr	Ile	Arg	Ile	Pro	Leu	Tyr	Ser	Ala	His	Tyr	Pro
	690				695						700				
Ala	Lys	Thr	Thr	Val	Asp	Gly	Leu	Ser	Asp	Lys	His	Cys	Trp	Leu	Ala
705				710					715					720	
Val	His	Asn	Ala	Ser	Leu	His	Asp	Phe	Leu	Thr	Ser	Met	Leu	Thr	Ser
			725					730						735	
Ser	Gly	Val	Arg	Val	Ser	Arg	Tyr	Glu	Gly	Gln	Thr	Pro	Gly	Ala	Asp
		740					745						750		
Asp	Met	Leu	Ile	Thr	Asp	Val	Glu	Pro	Glu	Gln	Ala	Trp	Ala	Gly	Arg
		755					760					765			
Gly	Val	Val	Met	Phe	Cys	Arg	Arg	His	Ile	Gly	Ile	Pro	Leu	Glu	Arg
	770				775						780				
Ser	Pro	Gly	Val	Trp	Val	His	Ser	Val	Ala	Thr	Pro	His	Glu	Leu	Leu
785				790					795					800	
Gly	Leu	Leu	Ala	Arg	Ile	Tyr	Ser	Val	Gln	Leu	Glu	Asp	Ser	Asp	Gly
			805					810						815	
Ala	Thr	Val	Leu	Ala	Ser	Pro	Asp	Glu	Leu	Ala	Ser	Val	Asn	Asp	Asp
			820				825						830		
Met	Met	Ile	Leu	Val	Val	Asp	Asp	His	Pro	Ile	Asn	Arg	Arg	Leu	Leu
		835					840					845			
Ala	Asp	Gln	Leu	Gly	Ser	Leu	Gly	Tyr	Gln	Cys	Lys	Thr	Ala	Asn	Asp
	850				855					860					
Gly	Val	Asp	Ala	Leu	Asn	Val	Leu	Ser	Lys	Asn	His	Ile	Asp	Ile	Val
865				870					875					880	

Leu Ser Asp Val Asn Met Pro Asn Met Asp Gly Tyr Arg Leu Thr Gln
 885 890 895
 Arg Ile Arg Gln Leu Gly Leu Thr Leu Pro Val Val Gly Val Thr Ala
 900 905 910
 Asn Ala Leu Ala Glu Glu Lys Gln Arg Cys Leu Glu Ser Gly Met Asp
 915 920 925
 Ser Cys Leu Ser Lys Pro Val Thr Leu Asp Val Leu Lys Gln Thr Leu
 930 935 940
 Ser Val Tyr Ala Glu Arg Val Arg Lys Ala Arg Gln
 945 950 955

<210> 9781

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9781

Tyr Arg Phe Cys Tyr Val Arg Cys Gly Pro Leu Ile Met His Glu Asn
 1 5 10 15
 Gln Gln Pro Gln Thr Glu Ala Phe Glu Leu Ser Glu Ala Glu Arg Ala
 20 25 30
 Ala Ile Glu His Glu Met His His Tyr Glu Asp Pro Arg Ala Ala Ser
 35 40 45
 Ile Glu Ala Leu Lys Ile Val Gln Lys Gln Arg Gly Trp Val Pro Asp
 50 55 60
 Gly Ala Ile Tyr Ala Ile Ala Glu Val Leu Gly Ile Pro Ala Ser Asp
 65 70 75 80
 Val Glu Gly Val Ala Thr Phe Tyr Ser Gln Ile Phe Arg Gln Pro Val
 85 90 95
 Gly Arg His Val Ile Arg Tyr Cys Asp Ser Val Val Cys His Ile Thr
 100 105 110
 Gly Tyr Gln Gly Ile Gln Ala Ala Ile Glu Lys Lys Leu Asn Ile Lys
 115 120 125
 Pro Gly Gln Thr Thr Phe Asp Gly Arg Phe Thr Leu Leu Pro Thr Cys
 130 135 140
 Cys Leu Gly Asn Cys Asp Lys Gly Pro Thr Met Met Ile Asp Glu Asp
 145 150 155 160
 Thr His Ser His Leu Thr Pro Glu Ala Ile Pro Asp Leu Leu Glu Gln
 165 170 175
 Tyr Lys

<210> 9782

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 9782

Cys Trp Lys Ala Gly Ala Gly Cys Thr Leu Cys Thr Ala Pro Cys Arg
 1 5 10 15
 Ala Val Lys Trp Thr Gly Arg Ser Ser Thr Thr Leu Ser Thr Arg Leu
 20 25 30
 Leu Arg Asn Cys Leu Ser Trp Arg Val Leu Lys Met Pro Arg Arg Thr
 35 40 45
 Gln Ala Ser Ala Phe Ala Ala Arg Asn Trp Arg Val Ser Arg Thr Ala
 50 55 60
 Thr Ala Val Val Pro Arg Cys Ala Pro Thr Ser Ala Cys Thr Asn Arg
 65 70 75 80
 Val Ser Arg Arg Ile Lys Thr Pro Cys Ser Pro Ser Arg Trp Lys Gly
 85 90 95
 Thr Thr Ser Arg Leu Arg Arg Val Arg Lys Ser Arg Leu His Gly His

```
<210> 9783
<211> 217
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9784
<211> 112
<212> PRT
<213> Enterobacter cloacae
```

<400> 9784																
Arg	Pro	Arg	Glu	Lys	Lys	Asn	Gly	Gly	Thr	Arg	Met	Ile	Pro	Leu	Thr	
1				5					10					15		
His	Gly	Leu	Ile	Leu	Ala	Ala	Ile	Leu	Phe	Val	Leu	Gly	Leu	Thr	Gly	
		20						25				30				
Leu	Val	Ile	Arg	Arg	Asn	Leu	Leu	Phe	Met	Leu	Ile	Gly	Leu	Glu	Ile	
		35					40					45				
Met	Ile	Asn	Ala	Ser	Ala	Leu	Ala	Phe	Val	Val	Ala	Gly	Ser	Tyr	Trp	
	50					55					60					
Gly	Gln	Thr	Asp	Gly	Gln	Val	Met	Tyr	Ile	Leu	Ala	Ile	Ser	Leu	Ala	
65				70						75					80	
Ala	Ala	Glu	Ala	Ser	Ile	Gly	Leu	Ala	Leu	Leu	Gln	Leu	His	Arg		
			85						90				95			
Arg	Arg	Gln	Asn	Leu	Asn	Ile	Asp	Ser	Val	Ser	Glu	Leu	Arg	Gly		
			100					105					110			

<210> 9785
 <211> 166
 <212> PRT
 <213> Enterobacter cloacae

<400> 9785
 Tyr Asn Val Met Asn Pro Arg Lys Glu Lys His Met Ile Gln Trp Gln
 1 5 10 15
 Asp Leu His His Ser Glu Leu Thr Val Gln Ser Leu Tyr Ala Leu Leu
 20 25 30
 Lys Leu Arg Cys Glu Val Phe Val Val Glu Gln Thr Cys Pro Tyr Gln
 35 40 45
 Asp Ile Asp Gly Asp Asp Leu Val Gly Glu Asn Arg His Ile Leu Gly
 50 55 60
 Trp Arg Asp Asn Glu Leu Val Ala Tyr Ala Arg Ile Leu Lys Ser Glu
 65 70 75 80
 Glu Glu Phe Asp Pro Val Val Ile Gly Arg Val Ile Ile Ser Gly Arg
 85 90 95
 Ala Arg Gly Glu Lys Leu Gly Tyr Gln Leu Met Glu Lys Thr Leu Asp
 100 105 110
 Ala Cys Gln Lys Gln Trp Pro Asp Lys Ala Leu Tyr Leu Gly Ala Gln
 115 120 125
 Ala His Leu Gln Ser Phe Tyr Gly His Phe Gly Phe Thr Pro Val Thr
 130 135 140
 Asp Ile Tyr Asp Glu Asp Gly Ile Pro His Ile Gly Met Ala Arg Glu
 145 150 155 160
 Ala Lys Gln Ala Gln
 165

<210> 9786
 <211> 69
 <212> PRT
 <213> Enterobacter cloacae

<400> 9786
 Ala Ile Leu Thr Ala Gly Trp Asn Cys Ile Arg Arg Lys Asn Ala Asn
 1 5 10 15
 Pro Gly Arg Trp Arg Ser Arg Arg Cys His Val Arg Arg Gly Asn Ser
 20 25 30
 Pro Lys Arg Ser Ala Arg Arg Ser Val Lys Pro Gly Trp Arg Thr Val
 35 40 45
 Ser Ala Asn Ile Phe Pro Ser Arg Asp Asn Phe Leu Ser Val Thr Ala
 50 55 60
 Trp Trp Cys Ala
 65

<210> 9787
 <211> 323
 <212> PRT
 <213> Enterobacter cloacae

<400> 9787
 Arg His Ala Ser Cys Tyr Pro Ser Arg Arg Thr Gln Arg Pro Pro Gly
 1 5 10 15
 Gln Pro Gly Ser Cys Cys Arg Glu Ser Gly Ser Asp Thr Ala Leu Ser
 20 25 30
 Asn Lys Gly His Ala Met Ile Tyr Pro Asp Glu His Met Leu Tyr Ala
 35 40 45
 Pro Val Glu Trp Gln Asp Cys Ser Glu Gly Tyr Thr Asp Ile Arg Tyr
 50 55 60

His Lys Ser Ala Asp Gly Ile Ala Lys Ile Thr Ile Asn Arg Pro Gln
 65 70 75 80
 Val Arg Asn Ala Phe Arg Pro Leu Thr Val Lys Glu Met Ile Gln Ala
 85 90 95
 Leu Ala Asp Ala Arg Tyr Asp Asp Thr Val Gly Val Ile Ile Leu Thr
 100 105 110
 Gly Glu Gly Glu Lys Ala Phe Cys Ser Gly Gly Asp Gln Lys Val Arg
 115 120 125
 Gly Asp Tyr Gly Gly Tyr Gln Asp Asp Ala Gly Thr His His Leu Asn
 130 135 140
 Val Leu Asp Phe Gln Arg Gln Ile Arg Thr Cys Pro Lys Pro Val Val
 145 150 155 160
 Ala Met Val Ala Gly Tyr Ser Ile Gly Gly His Val Leu His Met
 165 170 175
 Met Cys Asp Leu Thr Ile Ala Ala Glu Asn Ala Ile Phe Gly Gln Thr
 180 185 190
 Gly Pro Lys Val Gly Ser Phe Asp Gly Gly Trp Gly Ala Ser Tyr Met
 195 200 205
 Ala Arg Ile Val Gly Gln Lys Lys Ala Arg Glu Ile Trp Phe Leu Cys
 210 215 220
 Arg Gln Tyr Asn Ala Gln Glu Ala Leu Asp Met Gly Leu Val Asn Thr
 225 230 235 240
 Val Val Pro Ile Ala Asp Leu Glu Lys Glu Thr Val Arg Trp Cys Arg
 245 250 255
 Glu Met Leu Gln Asn Ser Pro Met Ala Leu Arg Cys Leu Lys Ala Ala
 260 265 270
 Leu Asn Ala Asp Cys Asp Gly Gln Ala Gly Leu Gln Glu Leu Ala Gly
 275 280 285
 Asn Ala Thr Met Leu Phe Tyr Met Thr Glu Glu Gly Gln Glu Gly Arg
 290 295 300
 Asn Ala Phe Asn Glu Lys Arg Gln Pro Asp Phe Ser Lys Tyr Lys Arg
 305 310 315 320
 Asn Pro

<210> 9788

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 9788

Leu Leu Arg Leu Gly Arg Arg Leu Tyr Gly Asp Asp Arg Arg Gln Arg
 1 5 10 15
 Ala Gly Gly Ser Ala Ala Gly Cys Cys Asp Asp Arg Arg Glu Thr Ser
 20 25 30
 Pro Arg Gly Ser Ala Gly Ala Ser Ser Ile Arg Ser Ile Ala Met Lys
 35 40 45
 Leu Thr Pro Leu Thr Thr Gly Leu Leu Leu Ala Gly Leu Met Thr Gly
 50 55 60
 Ser Ala Leu Ala Ala Asp Lys Ile Val Ile Ala His Arg Gly Ala Ser
 65 70 75 80
 Gly Tyr Leu Pro Glu His Thr Leu Pro Ala Lys Ala Met Ala Tyr Ala
 85 90 95
 Gln Gly Ala Asp Tyr Leu Glu Gln Asp Leu Val Met Thr Lys Asp Asp
 100 105 110
 Gln Leu Val Val Leu His Asp His Tyr Leu Asp Arg Val Thr Asp Val
 115 120 125
 Ala Glu Arg Phe Pro Asp Arg Ala Arg Lys Asp Gly Arg Tyr Tyr Ala
 130 135 140
 Ile Asp Phe Thr Leu Asp Glu Ile Arg Ser Leu Lys Phe Thr Glu Gly
 145 150 155 160

Phe Glu Ile Glu Asn Gly Lys Lys Val Gln Val Tyr Pro Gly Arg Phe
 165 170 175
 Pro Met Gly Lys Ser Asp Phe Arg Ile His Thr Phe Gln Glu Ile
 180 185 190
 Glu Phe Val Gln Gly Leu Asn His Ser Thr Gly Lys Asn Ile Gly Ile
 195 200 205
 Tyr Pro Glu Ile Lys Ala Pro Trp Phe His His Gln Glu Gly Lys Asp
 210 215 220
 Ile Ala Ala Lys Thr Leu Glu Val Leu Lys Gln Tyr Gly Tyr Thr Ser
 225 230 235 240
 Lys Lys Asp Lys Val Tyr Leu Gln Cys Phe Asp Ala Ala Glu Leu Lys
 245 250 255
 Arg Ile Lys Thr Glu Leu Glu Pro Lys Met Gly Met Asp Leu Asn Leu
 260 265 270
 Val Gln Leu Ile Ala Tyr Thr Asp Trp Asn Glu Thr Gln Glu Lys Gln
 275 280 285
 Pro Asp Gly Lys Trp Val Asn Tyr Ser Tyr Asp Trp Met Phe Lys Pro
 290 295 300
 Gly Ala Met Lys Gln Ile Ala Gln Tyr Ala Asp Gly Ile Gly Pro Asp
 305 310 315 320
 Tyr His Met Leu Val Ala Glu Gly Ser Thr Pro Gly His Val Lys Leu
 325 330 335
 Thr Ala Met Val Lys Glu Ala His Ala Ser Lys Met Gln Val His Pro
 340 345 350
 Tyr Thr Val Arg Ala Asp Gln Leu Pro Pro Tyr Ala Thr Asp Val Asn
 355 360 365
 Gln Leu Tyr Glu Val Leu Tyr Lys Gln Ala Asp Val Asp Gly Leu Phe
 370 375 380
 Thr Asp Phe Pro Asp Lys Ala Val Thr Phe Leu Lys
 385 390 395

<210> 9789

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 9789

Phe Val Arg Lys Met Pro Leu Ala Leu Lys Asn Thr Ser Ala Thr Leu
 1 5 10 15
 Thr Leu Thr Ser Arg Ala Cys Cys Ser Lys Val Ala Leu Tyr Met Asn
 20 25 30
 Asn Met Asn Val Ile Ile Ala Asp Asp His Pro Ile Val Leu Phe Gly
 35 40 45
 Ile Arg Lys Ser Leu Glu Gln Ile Glu Trp Val Asn Val Val Gly Glu
 50 55 60
 Phe Glu Asp Ser Thr Ala Leu Ile Asn Asn Leu Pro Lys Leu Asp Ala
 65 70 75 80
 His Val Leu Ile Thr Asp Leu Ser Met Pro Gly Asp Lys Tyr Gly Asp
 85 90 95
 Gly Ile Thr Leu Ile Lys Tyr Ile Lys Arg His Phe Pro Asp Ile Ser
 100 105 110
 Ile Ile Val Leu Thr Met Asn Asn Asn Pro Ala Ile Leu Ser Ala Val
 115 120 125
 Leu Asp Leu Asp Ile Glu Gly Ile Val Leu Lys Gln Gly Ala Pro Thr
 130 135 140
 Asp Leu Pro Lys Ala Leu Ala Ala Leu Gln Lys Gly Lys Lys Phe Thr
 145 150 155 160
 Pro Glu Ser Val Ser Arg Leu Leu Glu Lys Ile Ser Ala Gly Gly Tyr
 165 170 175
 Gly Asp Lys Arg Leu Ser Pro Lys Glu Ser Glu Val Leu Arg Leu Phe
 180 185 190

Ala Glu Gly Phe Leu Val Thr Glu Ile Ala Lys Lys Leu Asn Arg Ser
 195 200 205
 Ile Lys Thr Ile Ser Ser Gln Lys Lys Ser Ala Met Met Lys Leu Gly
 210 215 220
 Val Asp Asn Asp Ile Ala Leu Leu Asn Tyr Leu Ser Ser Val Thr Leu
 225 230 235 240
 Ser Ala Thr Asp Lys Asp
 245

<210> 9790

<211> 776

<212> PRT

<213> Enterobacter cloacae

<400> 9790

Gly Gly Gly Tyr Phe Leu Phe His Gly Gln Val Lys Thr His Met Asn
 1 5 10 15
 Gln Ser Leu Leu Val Thr Lys Arg Asp Gly Thr Thr Glu Arg Ile Asn
 20 25 30
 Leu Asp Lys Ile His Arg Val Leu Asp Trp Ala Ala Glu Gly Leu Asn
 35 40 45
 Asn Val Ser Ile Ser Gln Val Glu Leu Arg Ser His Ile Gln Phe Tyr
 50 55 60
 Asp Gly Ile Lys Thr Ser Asp Ile His Glu Thr Ile Ile Lys Ala Ala
 65 70 75 80
 Ala Asp Leu Ile Ser Arg Asp Ala Pro Asp Tyr Gln Tyr Leu Ala Ala
 85 90 95
 Arg Leu Ala Ile Phe His Leu Arg Lys Lys Ala Tyr Gly Gln Phe Glu
 100 105 110
 Pro Pro Lys Leu Tyr Asp His Val Lys Met Val Glu Leu Gly Lys
 115 120 125
 Tyr Asp Thr His Leu Leu Glu Asp Tyr Thr Glu Glu Glu Phe Glu Gln
 130 135 140
 Met Asn Gly Phe Ile Asp His Trp Arg Asp Met Asn Phe Ser Tyr Ala
 145 150 155 160
 Ala Val Lys Gln Leu Glu Gly Lys Tyr Leu Val Gln Asn Arg Val Thr
 165 170 175
 Gly Glu Ile Tyr Glu Ser Ala Gln Phe Leu Tyr Ile Leu Val Ala Ala
 180 185 190
 Cys Leu Phe Ser Asn Tyr Pro Arg Glu Thr Arg Leu Asp Tyr Val Lys
 195 200 205
 Arg Phe Tyr Asp Ala Val Ser Thr Phe Lys Ile Ser Leu Pro Thr Pro
 210 215 220
 Ile Met Ser Gly Val Arg Thr Pro Thr Arg Gln Phe Ser Ser Cys Val
 225 230 235 240
 Leu Ile Glu Cys Gly Asp Ser Leu Asp Ser Ile Asn Ala Thr Ser Ser
 245 250 255
 Ala Ile Val Lys Tyr Val Ser Gln Arg Ala Gly Ile Gly Ile Asn Ala
 260 265 270
 Gly Arg Ile Arg Ala Leu Gly Ser Pro Ile Arg Gly Gly Glu Ala Phe
 275 280 285
 His Thr Gly Cys Ile Pro Phe Tyr Lys His Phe Gln Thr Ala Val Lys
 290 295 300
 Ser Cys Ser Gln Gly Gly Val Arg Gly Gly Ala Ala Thr Leu Phe Tyr
 305 310 315 320
 Pro Met Trp His Leu Glu Val Glu Ser Leu Leu Val Leu Lys Asn Asn
 325 330 335
 Arg Gly Val Glu Gly Asn Arg Val Arg His Met Asp Tyr Gly Val Gln
 340 345 350
 Ile Asn Lys Leu Met Tyr Thr Arg Leu Leu Lys Gly Glu Asp Ile Thr
 355 360 365

Leu Phe Ser Pro Ser Asp Val Pro Gly Leu Tyr Asp Ala Phe Phe Ala
 370 375 380
 Asp Gln Asp Glu Phe Glu Arg Leu Tyr Thr Lys Tyr Glu Lys Asp Asp
 385 390 395 400
 Ser Ile Arg Lys Gln Arg Val Lys Ala Val Asp Leu Phe Ser Leu Met
 405 410 415
 Met Gln Glu Arg Ala Ser Thr Gly Arg Ile Tyr Ile Gln Asn Val Asp
 420 425 430
 His Cys Asn Thr His Ser Pro Phe Asp Pro Val Val Ala Pro Val Arg
 435 440 445
 Gln Ser Asn Leu Cys Leu Glu Ile Ala Leu Pro Thr Lys Pro Leu Asp
 450 455 460
 Asp Val Asn Asp Glu Asn Gly Glu Ile Ala Leu Cys Thr Leu Ser Ala
 465 470 475 480
 Phe Asn Leu Gly Ala Ile Lys Ser Leu Asp Glu Leu Glu Glu Leu Ala
 485 490 495
 Val Leu Ala Val Arg Ala Leu Asp Ala Leu Leu Asp Tyr Gln Asp Tyr
 500 505 510
 Pro Ile Pro Ala Ala Lys Arg Gly Ala Met Gly Arg Arg Thr Leu Gly
 515 520 525
 Ile Gly Val Ile Asn Phe Ala Tyr Trp Leu Ala Lys Asn Gly Lys Arg
 530 535 540
 Tyr Ser Asp Gly Ser Ala Asn Asn Leu Thr His Gln Thr Phe Glu Ala
 545 550 555 560
 Ile Gln Tyr Tyr Leu Met Lys Ala Ser Asn Glu Leu Ala Lys Glu Gln
 565 570 575
 Gly Ala Cys Pro Trp Phe Asn Glu Thr Thr Tyr Ala Lys Gly Ile Leu
 580 585 590
 Pro Ile Asp Thr Tyr Lys Lys Asp Leu Asp Ala Ile Val Ser Glu Pro
 595 600 605
 Leu His Leu Asp Trp Glu Gly Leu Arg Glu Ser Ile Lys Thr His Gly
 610 615 620
 Leu Arg Asn Ser Thr Leu Ser Ala Leu Met Pro Ser Glu Thr Ser Ser
 625 630 635 640
 Gln Ile Ser Asn Ala Thr Asn Gly Ile Glu Pro Pro Arg Gly His Val
 645 650 655
 Ser Ile Lys Ala Ser Lys Asp Gly Val Leu Arg Gln Val Val Pro Asp
 660 665 670
 Tyr Glu Thr Leu Gly Asp Asn Tyr Glu Leu Leu Trp Glu Met Pro Asn
 675 680 685
 Asn Asp Gly Tyr Leu Gln Leu Val Gly Ile Met Gln Lys Phe Ile Asp
 690 695 700
 Gln Ser Ile Ser Ala Asn Thr Asn Tyr Asp Pro Thr Arg Phe Pro Ser
 705 710 715 720
 Gly Lys Val Pro Met Gln Gln Leu Leu Lys Asp Leu Leu Thr Ala Tyr
 725 730 735
 Lys Phe Gly Val Lys Thr Leu Tyr Tyr His Asn Thr Arg Asp Gly Ala
 740 745 750
 Glu Asp Ala Gln Asp Asp Leu Ala Pro Ser Ile Gln Asp Asp Gly Cys
 755 760 765
 Glu Ser Gly Ala Cys Lys Ile
 770 775

<210> 9791

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 9791

Pro Ser Pro Thr Gly Arg Gly Asn Ser Phe Pro Leu Ser Leu Trp Glu
 1 5 10 15

Arg Ala Gly Val Arg Gly Asn Asn Thr Thr Gly Leu Thr Ala Met Ala
 20 25 30
 Tyr Thr Thr Phe Ser Gln Thr Lys Asn Asp Gln Leu Lys Glu Pro Met
 35 40 45
 Phe Phe Gly Gln Pro Val Asn Val Ala Arg Tyr Asp Gln Gln Lys Tyr
 50 55 60
 Asp Ile Phe Glu Lys Leu Ile Glu Lys Gln Leu Ser Phe Phe Trp Arg
 65 70 75 80
 Pro Glu Glu Val Asp Val Ser Arg Asp Arg Ile Asp Phe Gln Ala Leu
 85 90 95
 Pro Glu His Glu Lys His Ile Phe Leu Ser Asn Leu Lys Tyr Gln Thr
 100 105 110
 Leu Leu Asp Ser Ile Gln Gly Arg Ser Pro Asn Val Ala Leu Leu Pro
 115 120 125
 Leu Ile Ser Ile Pro Glu Leu Glu Thr Trp Val Glu Thr Trp Ala Phe
 130 135 140
 Ser Glu Thr Ile His Ser Arg Ser Tyr Thr His Ile Ile Arg Asn Ile
 145 150 155 160
 Val Asn Asp Pro Ala Val Val Phe Asp Asp Ile Val Thr Asn Glu Gln
 165 170 175
 Ile Gln Lys Arg Ala Glu Gly Ile Ala His Tyr Tyr Asp Glu Leu Ile
 180 185 190
 Glu Met Thr Ser Tyr Trp His Leu Leu Gly Glu Gly Thr His Asn Val
 195 200 205
 Asn Gly Lys Thr Val Thr Val Asn Leu Arg Ala Leu Lys Lys Gln Leu
 210 215 220
 Tyr Leu Cys Leu Met Ser Val Asn Ala Leu Glu Ala Ile Arg Phe Tyr
 225 230 235 240
 Val Ser Phe Ala Cys Ser Phe Ala Phe Ala Glu Arg Lys Leu Met Glu
 245 250 255
 Gly Asn Ala Lys Ile Ile Arg Leu Ile Ala Arg Asp Glu Ala Leu His
 260 265 270
 Leu Thr Gly Thr Gln His Met Leu Asn Leu Leu Arg Ser Gly Ala Asp
 275 280 285
 Asp Pro Glu Met Ala Glu Ile Ala Glu Glu Cys Lys Gln Glu Cys Tyr
 290 295 300
 Asp Leu Phe Leu Gln Ala Ala Gln Gln Glu Lys Glu Trp Ala Asp Tyr
 305 310 315 320
 Leu Phe Arg Asp Gly Ser Met Ile Gly Leu Asn Lys Asp Ile Leu Cys
 325 330 335
 Gln Tyr Val Glu Tyr Ile Thr Asn Ile Arg Met Gln Ala Val Gly Leu
 340 345 350
 Asp Leu Pro Phe Gln Thr Arg Ser Asn Pro Ile Pro Trp Ile Asn Thr
 355 360 365
 Trp Leu Val Ser Asp Asn Val Gln Val Ala Pro Gln Glu Val Glu Val
 370 375 380
 Ser Ser Tyr Leu Val Gly Gln Ile Asp Ser Glu Val Asn Thr Asp Asp
 385 390 395 400
 Leu Ser Asp Phe Gln Leu
 405

<210> 9792

<211> 510

<212> PRT

<213> Enterobacter cloacae

<400> 9792

Leu Thr Glu His Ala Met Asp Thr Trp Ile Tyr Leu Ser Gln Gly Phe
 1 5 10 15
 Ala Val Ala Met Thr Pro Glu Asn Leu Val Ile Ala Leu Ile Gly Cys
 20 25 30

Phe	Val	Gly	Thr	Ile	Val	Gly	Leu	Leu	Pro	Gly	Leu	Gly	Pro	Ile	Asn
		35					40					45			
Gly	Val	Ala	Ile	Leu	Leu	Pro	Leu	Ala	Phe	Ala	Leu	His	Leu	Pro	Ala
	50					55					60				
Glu	Ser	Ala	Leu	Ile	Leu	Leu	Ala	Thr	Val	Tyr	Ile	Gly	Cys	Glu	Tyr
65				70					75					80	
Gly	Gly	Arg	Ile	Ser	Ser	Ile	Leu	Leu	Asn	Val	Pro	Gly	Asp	Ala	Ala
			85						90					95	
Ala	Ile	Met	Thr	Ala	Leu	Asp	Gly	Tyr	Pro	Met	Ala	Gln	Gln	Gly	Arg
			100					105					110		
Gly	Gly	Val	Ala	Leu	Ser	Ile	Ser	Ala	Val	Ser	Ser	Phe	Phe	Gly	Ser
	115						120					125			
Leu	Ile	Ala	Ile	Gly	Gly	Ile	Ile	Leu	Phe	Ala	Pro	Ala	Leu	Ala	Gln
	130					135					140				
Trp	Ser	Leu	Ala	Phe	Gly	Pro	Ala	Glu	Tyr	Phe	Ala	Leu	Met	Val	Phe
145					150					155				160	
Ala	Ile	Ala	Cys	Leu	Gly	Ser	Met	Met	Ala	Gln	Asn	Pro	Leu	Lys	Ser
			165						170					175	
Phe	Leu	Ser	Ala	Leu	Ile	Gly	Leu	Ser	Leu	Ala	Thr	Val	Gly	Val	Asp
			180					185					190		
Ala	Asn	Thr	Gly	Val	Tyr	Arg	Phe	Thr	Phe	Asp	Ser	Val	His	Leu	Ser
		195					200					205			
Asp	Gly	Val	Gln	Phe	Ile	Val	Val	Val	Ile	Gly	Leu	Phe	Ser	Val	Ser
	210				215						220				
Glu	Ile	Leu	Leu	Met	Leu	Glu	His	Thr	Ser	Ser	Gly	Gln	Thr	Leu	Val
225				230						235				240	
Arg	Lys	Thr	Gly	Arg	Met	Leu	Phe	Asn	Ala	Lys	Glu	Gly	Ala	Gln	Cys
			245						250					255	
Val	Gly	Ala	Thr	Leu	Arg	Ser	Ser	Val	Ile	Gly	Phe	Phe	Val	Gly	Ile
		260						265					270		
Leu	Pro	Gly	Ala	Gly	Ala	Thr	Ile	Ala	Ser	Ala	Ile	Thr	Tyr	Met	Thr
		275					280					285			
Glu	Lys	Lys	Leu	Ser	Gly	Asn	Ser	Asp	Ser	Phe	Gly	Lys	Gly	Asp	Ile
	290					295					300				
Arg	Gly	Val	Ala	Ala	Pro	Glu	Ala	Ala	Asn	Asn	Ala	Ser	Ala	Cys	Gly
305				310					315					320	
Ser	Phe	Ile	Pro	Met	Leu	Thr	Leu	Gly	Val	Pro	Gly	Ser	Gly	Thr	Thr
			325						330					335	
Ala	Val	Met	Met	Gly	Ala	Leu	Thr	Leu	Tyr	Asn	Ile	Thr	Pro	Gly	Pro
			340						345				350		
Ala	Met	Phe	Thr	Glu	Gln	Pro	Asp	Ile	Val	Trp	Gly	Leu	Ile	Ala	Ala
		355					360					365			
Leu	Leu	Ile	Ala	Asn	Val	Met	Leu	Leu	Val	Met	Asn	Ile	Pro	Leu	Ile
	370					375					380				
Gly	Leu	Phe	Thr	Arg	Met	Leu	Thr	Ile	Pro	Leu	Trp	Phe	Leu	Val	Pro
385				390					395					400	
Ala	Ile	Ala	Ala	Val	Ser	Ala	Val	Gly	Val	Tyr	Ala	Val	His	Ser	Thr
			405						410					415	
Thr	Phe	Asp	Leu	Val	Leu	Met	Val	Leu	Leu	Gly	Val	Leu	Gly	Tyr	Ile
			420					425					430		
Leu	Arg	Lys	Met	His	Phe	Pro	Met	Ser	Pro	Leu	Ile	Leu	Gly	Phe	Val
		435					440					445			
Leu	Gly	Glu	Met	Leu	Glu	Gln	Asn	Leu	Arg	Arg	Ala	Leu	Ser	Ile	Ser
	450					455					460				
Asn	Gly	Asn	Met	Gly	Ile	Leu	Trp	Glu	Ser	Ser	Val	Thr	Lys	Ile	Leu
465				470					475					480	
Leu	Ala	Met	Ala	Ile	Met	Val	Ile	Val	Val	Pro	Pro	Val	Leu	Arg	Trp
			485						490					495	
Ile	Arg	Arg	Arg	Gln	His	Lys	Pro	Gln	Pro	Asp	Ile	Gly			
			500					505					510		

<210> 9793
 <211> 350
 <212> PRT
 <213> Enterobacter cloacae

<400> 9793

Ala	Gly	Arg	Arg	Val	Thr	Ala	Arg	Ser	Val	Arg	Cys	Gly	Val	Asp	Leu
1				5					10					15	
Ala	Thr	Gly	Ser	Cys	Val	Ser	Pro	Ser	Trp	Gly	Ser	Ser	Arg	Tyr	Thr
			20					25					30		
Lys	Pro	Leu	Pro	Ile	Arg	Gln	Arg	Ala	Asp	Cys	Val	Met	Glu	Leu	Ile
		35					40					45			
Phe	Leu	Gly	Thr	Ser	Ala	Gly	Val	Pro	Thr	Arg	Ser	Arg	Asn	Val	Thr
	50					55					60				
Ala	Ile	Leu	Leu	Asp	Leu	Lys	His	Pro	Thr	Arg	Gly	Gly	Leu	Trp	Leu
65					70					75				80	
Phe	Asp	Cys	Gly	Glu	Gly	Thr	Gln	His	Gln	Met	Leu	His	Thr	Ser	Tyr
				85					90					95	
His	Pro	Gly	Lys	Val	Asp	Lys	Ile	Phe	Ile	Thr	His	Leu	His	Gly	Asp
			100					105					110		
His	Leu	Phe	Gly	Leu	Pro	Gly	Leu	Leu	Cys	Ser	Arg	Ser	Met	Ala	Gly
		115					120					125			
Asn	Ala	Asn	Pro	Leu	Thr	Ile	Tyr	Gly	Pro	Ala	Gly	Ile	Gln	Glu	Phe
	130					135					140				
Val	Glu	Thr	Thr	Leu	Arg	Leu	Ser	Gly	Ser	Trp	Thr	Asp	Tyr	Pro	Leu
145					150					155				160	
Glu	Val	Val	Glu	Ile	Gly	Glu	Gly	Leu	Val	Phe	Asp	Asp	Gly	Asp	Tyr
				165					170					175	
Gln	Val	Arg	Ala	Tyr	Pro	Leu	Asn	His	Pro	Val	Glu	Cys	Tyr	Gly	Tyr
			180					185					190		
Arg	Val	Glu	Glu	His	Asp	Lys	Pro	Gly	Ala	Leu	Asn	Ala	Ala	Ala	Leu
		195					200					205			
Gln	Ala	Asp	Gly	Val	Lys	Pro	Gly	Pro	Leu	Phe	Gln	Arg	Leu	Lys	His
	210					215					220				
Gly	Glu	Thr	Val	Thr	Leu	Glu	Asp	Gly	Arg	Val	Ile	Asn	Gly	Gln	Asp
225					230					235				240	
Tyr	Leu	Ala	Pro	Pro	Gln	Pro	Gly	Lys	Lys	Leu	Ala	Ile	Phe	Gly	Asp
				245					250					255	
Thr	Ala	Pro	Cys	Pro	Ser	Ala	Leu	Arg	Leu	Ala	Gly	Gly	Val	Asp	Val
		260						265					270		
Met	Val	His	Glu	Ala	Thr	Leu	Glu	Ala	Ala	Met	Glu	Glu	Lys	Ala	Asn
		275					280					285			
Ser	Arg	Gly	His	Ser	Ser	Thr	Arg	Gln	Ala	Ala	Gln	Leu	Ala	Arg	Glu
	290					295					300				
Ala	Gly	Val	Arg	Lys	Leu	Ile	Val	Thr	His	Val	Ser	Ser	Arg	Tyr	Asp
305					310					315				320	
Val	Arg	Gly	Ala	Glu	Ser	Leu	Leu	Ala	Glu	Cys	Arg	Glu	Val	Phe	Pro
				325					330					335	
Ala	Cys	Glu	Leu	Ala	Glu	Asp	Phe	Ala	Gln	Val	Ser	Val			
			340					345					350		

<210> 9794
 <211> 248
 <212> PRT
 <213> Enterobacter cloacae

<400> 9794

Gly	Val	Lys	Ala	Pro	Met	Asn	Ala	Glu	Lys	Ser	Pro	Val	Ala	His	Asn
1				5					10					15	
Val	Asp	His	Glu	Glu	Ile	Ala	Lys	Phe	Glu	Ala	Val	Ala	Ser	Arg	Trp
			20					25					30		

Trp Asp Leu Glu Gly Glu Phe Lys Pro Leu His Arg Ile Asn Pro Leu
 35 40 45
 Arg Leu Gly Tyr Ile Ala Glu Arg Ser Gly Gly Leu Phe Gly Lys Lys
 50 55 60
 Val Leu Asp Val Gly Cys Gly Gly Ile Leu Ala Glu Ser Met Ala
 65 70 75 80
 Arg Glu Gly Ala Thr Val Thr Gly Leu Asp Met Gly Phe Glu Pro Leu
 85 90 95
 Gln Val Ala Arg Leu His Ala Leu Glu Ser Gly Ile Gln Val Glu Tyr
 100 105 110
 Val Gln Glu Thr Val Glu Glu His Ala Lys His Ala His Gln Tyr
 115 120 125
 Asp Val Val Thr Cys Met Glu Met Leu Glu His Val Pro Asp Pro Gln
 130 135 140
 Ser Val Val Ser Ala Cys Ala Asn Leu Val Lys Pro Gly Gly Gln Val
 145 150 155 160
 Phe Phe Ser Thr Ile Asn Arg Asn Gly Lys Ala Trp Leu Met Ala Val
 165 170 175
 Val Gly Ala Glu Tyr Val Leu Arg Met Val Pro Lys Gly Thr His Asp
 180 185 190
 Val Lys Lys Phe Ile Lys Pro Ala Glu Leu Leu Gly Trp Val Asp Gln
 195 200 205
 Thr Trp Leu Lys Glu Gln His Met Thr Gly Leu His Tyr Asn Pro Leu
 210 215 220
 Thr Asp Lys Phe Lys Leu Ala Pro Gly Val Asp Val Asn Tyr Met Leu
 225 230 235 240
 His Thr Thr Ala Lys Asn Asp
 245

<210> 9795

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 9795

Lys Pro Leu Thr Ser Trp Arg Lys Ser Lys Ala Arg Ala Arg Gly Ser
 1 5 10 15
 Thr Lys Pro Leu Thr Arg Lys Ala Phe Cys Arg Ser Thr Pro Ile Lys
 20 25 30
 Lys Thr Trp Met Arg Ser Ser Ala Ser Arg Cys Thr Ser Thr Gly Lys
 35 40 45
 Ala Cys Ala Ser Pro Leu Lys Leu Thr Ala Cys Val Thr Pro Arg Ser
 50 55 60
 Leu Pro
 65

<210> 9796

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 9796

Cys Arg Pro Arg Pro Leu Arg Arg Ser Pro Thr Pro Leu Thr Val Leu
 1 5 10 15
 Ser His Arg Ala Gly Thr Ser Ala Leu Lys Arg Arg Lys Thr Ala Cys
 20 25 30
 Cys Val Arg Trp Tyr Arg Ile Thr Lys Arg Trp Val Thr Thr Ser
 35 40 45
 Cys Cys Gly Lys Cys Gln Thr Thr Thr Ala Thr Ser Asn Trp Trp Val
 50 55 60
 Ser Cys Arg Ser Leu Ser Thr Ser Arg Ser Leu Pro Ile Leu Thr Thr

65					70					75				80
Thr	Arg	Arg	Ala	Ser	Arg	Pro	Ala	Arg	Tyr	Arg	Cys	Ser	Ser	Cys
				85					90					95

<210> 9797

<211> 553

<212> PRT

<213> Enterobacter cloacae

<400> 9797

Met	Leu	Lys	Asn	Glu	His	Arg	Gly	Lys	Ala	Met	Thr	Ile	His	Asp	Pro
1				5					10					15	
Arg	Tyr	Ser	Asp	Val	Ile	Ile	Ile	Gly	Gly	Gly	Ala	Thr	Gly	Ala	Gly
			20					25					30		
Ile	Ala	Arg	Asp	Cys	Ala	Leu	Arg	Gly	Leu	Ser	Val	Thr	Leu	Leu	Glu
		35					40					45			
Arg	His	Asp	Ile	Ala	Thr	Gly	Ala	Thr	Gly	Arg	Asn	His	Gly	Leu	Leu
	50					55					60				
His	Ser	Gly	Ala	Arg	Tyr	Ala	Val	Thr	Asp	Gly	Glu	Ser	Ala	Arg	Glu
65					70				75					80	
Cys	Ile	Ala	Glu	Asn	Gln	Ile	Leu	Lys	Arg	Ile	Ala	Arg	His	Cys	Ile
				85					90					95	
Glu	Pro	Thr	Asp	Gly	Leu	Phe	Ile	Thr	Leu	Pro	Glu	Asp	Asp	Leu	Ala
			100					105					110		
Phe	Gln	Ser	Thr	Phe	Ile	Thr	Ala	Cys	Thr	Ala	Ala	Gly	Ile	Gln	Ala
		115					120					125			
Glu	Ala	Met	Asp	Pro	Ala	Leu	Ala	Arg	Arg	Leu	Glu	Pro	Ser	Val	Asn
	130					135					140				
Pro	Thr	Leu	Ile	Gly	Ala	Val	Lys	Val	Pro	Asp	Gly	Thr	Val	Asp	Pro
145					150				155					160	
Phe	Arg	Leu	Thr	Ala	Ala	Asn	Met	Leu	Asp	Ala	Arg	Glu	His	Gly	Ala
			165						170					175	
Gln	Ile	Leu	Thr	Gly	His	His	Val	Thr	Gly	Leu	Ile	Arg	Glu	Gly	Asn
		180						185					190		
Thr	Val	Arg	Gly	Val	Arg	Val	Phe	Asp	Ala	Gln	Tyr	Asn	Glu	His	Arg
		195					200					205			
Glu	Leu	Tyr	Ala	Ala	Val	Val	Val	Asn	Ala	Ala	Gly	Ile	Trp	Gly	Gln
	210					215					220				
Arg	Ile	Ala	Glu	Tyr	Ala	Asp	Leu	Ser	Val	Arg	Met	Phe	Pro	Ala	Lys
225					230					235				240	
Gly	Ser	Leu	Leu	Ile	Leu	Asp	His	Arg	Ile	Asn	Asn	His	Val	Ile	Asn
			245						250					255	
Arg	Cys	Arg	Lys	Pro	Ser	Asp	Ala	Asp	Ile	Leu	Val	Pro	Gly	Asp	Thr
			260					265					270		
Ile	Ser	Leu	Ile	Gly	Thr	Thr	Ser	Met	His	Val	Asp	Tyr	Ser	Glu	Ile
		275					280					285			
Asp	Tyr	Asn	Arg	Val	Thr	Ala	Glu	Glu	Val	Asp	Ile	Leu	Leu	Arg	Glu
	290					295					300				
Gly	Glu	Lys	Leu	Ala	Pro	Val	Met	Ala	Gln	Thr	Arg	Ile	Leu	Arg	Ala
305					310					315				320	
Tyr	Ala	Gly	Val	Arg	Pro	Leu	Val	Ala	Ser	Asp	Asn	Asp	Pro	Ser	Gly
			325						330					335	
Arg	Asn	Val	Ser	Arg	Gly	Ile	Val	Leu	Asp	His	Ala	Glu	Arg	Arg	Asp
		340						345				350			
Gly	Met	Asp	Gly	Phe	Ile	Thr	Ile	Thr	Gly	Gly	Lys	Leu	Met	Thr	Tyr
		355					360					365			
Arg	Leu	Met	Ala	Gln	Trp	Ala	Thr	Asp	Ala	Val	Cys	Arg	Lys	Leu	Gly
	370					375					380				
Asn	Thr	Ala	Pro	Cys	Val	Thr	Ala	Glu	Gln	Ala	Leu	Pro	Gly	Ser	Gln
385					390					395				400	
Gln	Ser	Thr	Glu	Lys	Thr	Leu	His	Lys	Ile	Ile	Ser	Leu	Pro	Ala	Pro

				405					410					415			
Leu	Arg	Gly	Ser	Ala	Ile	Tyr	Arg	His	Gly	Asp	Arg	Thr	Pro	Thr	Trp		
			420					425					430				
Leu	Gly	Glu	Gly	Arg	Leu	Ser	Arg	Ser	Leu	Val	Cys	Glu	Cys	Glu	Ala		
		435					440					445					
Val	Thr	Ala	Gly	Glu	Val	Gln	Tyr	Ala	Val	Glu	Asn	Leu	Thr	Val	Asn		
	450					455					460						
Asn	Leu	Leu	Asp	Leu	Arg	Arg	Arg	Thr	Arg	Val	Gly	Met	Gly	Thr	Cys		
465				470						475					480		
Gln	Gly	Glu	Leu	Cys	Ala	Cys	Arg	Ala	Ala	Gly	Leu	Leu	Gln	Arg	Phe		
			485					490						495			
His	Ala	Thr	Thr	Ser	Thr	Gln	Ser	Leu	Ala	Gln	Leu	Ser	Asp	Phe	Leu		
		500						505					510				
Asn	Glu	Arg	Trp	Lys	Gly	Ile	Gln	Pro	Val	Ala	Trp	Gly	Asp	Ala	Leu		
	515					520						525					
Arg	Glu	Ser	Glu	Phe	Thr	Arg	Trp	Val	Tyr	Gln	Gly	Leu	Cys	Gly	Leu		
	530					535					540						
Glu	Lys	Glu	His	Asn	His	Glu	Ile										
545					550												

<210> 9798

<211> 440

<212> PRT

<213> Enterobacter cloacae

<400> 9798

Lys	Ser	Leu	Arg	His	Arg	Leu	Gly	Ser	Gly	Arg	Val	Arg	Ser	Arg	Gly		
1				5					10					15			
Ala	Gly	Leu	Arg	Trp	Arg	Arg	Leu	Arg	Arg	His	Arg	Ala	Ala	Cys	Arg		
			20					25					30				
Gly	Ala	Asp	Tyr	Pro	Ala	Gln	Gly	Glu	Ser	Thr	Met	Asn	Asp	Thr	Arg		
	35					40						45					
Phe	Glu	Ser	Cys	Ile	Lys	Cys	Thr	Val	Cys	Thr	Thr	Val	Cys	Pro	Val		
50					55						60						
Ser	Gly	Val	Asp	Pro	Arg	Tyr	Pro	Gly	Pro	Lys	Gln	Ala	Gly	Pro	Asp		
65				70					75					80			
Gly	Glu	Arg	Leu	Arg	Leu	Lys	Asp	Gly	Ala	Leu	Tyr	Asp	Glu	Ala	Leu		
			85					90					95				
Lys	Tyr	Cys	Ile	Asn	Cys	Lys	Arg	Cys	Glu	Val	Ala	Cys	Pro	Ser	Asp		
	100							105					110				
Val	Lys	Ile	Gly	Asp	Ile	Ile	Gln	Arg	Ala	Arg	Ala	Arg	Tyr	Ser	Thr		
	115					120						125					
Gln	Lys	Pro	Thr	Leu	Arg	Asp	Ala	Ile	Leu	Ser	His	Thr	Asp	Leu	Met		
	130					135						140					
Gly	Ser	Leu	Ser	Thr	Pro	Phe	Ala	Pro	Val	Val	Asn	Ala	Ala	Thr	Ala		
145					150					155				160			
Leu	Lys	Pro	Val	Arg	Arg	Leu	Leu	Asp	Ala	Thr	Leu	Lys	Ile	Asp	His		
			165					170						175			
His	Arg	Ser	Leu	Pro	Lys	Tyr	Ser	His	Gly	Thr	Phe	Arg	Arg	Trp	Tyr		
	180							185					190				
Lys	Ser	Val	Ala	Ala	Glu	Gln	Ala	Gln	Phe	Ala	Glu	Gln	Val	Ala	Phe		
	195						200					205					
Phe	His	Gly	Cys	Tyr	Val	Asn	Tyr	Asn	His	Pro	Gln	Leu	Gly	Lys	Asp		
	210					215					220						
Leu	Leu	Lys	Val	Leu	Asn	Ala	Met	Gly	Thr	Gly	Val	Gln	Leu	Leu	Ser		
225					230					235				240			
Lys	Glu	Lys	Cys	Cys	Gly	Val	Pro	Leu	Ile	Ala	Asn	Gly	Phe	Ile	Asp		
			245						250					255			
Lys	Ala	Arg	Lys	Gln	Ala	Ser	Ser	Asn	Val	Thr	Ser	Leu	Arg	Glu	Ala		
			260					265					270				
Ile	Val	Asp	Lys	Gly	Ile	Pro	Val	Leu	Ala	Thr	Ser	Ser	Thr	Cys	Thr		


```

      275              280              285
Phe Thr Leu Arg Asp Glu Tyr Pro His Leu Leu Asp Val Asp Asn Thr
  290              295              300
Gly Leu Arg Glu His Ile Glu Leu Ala Thr Arg Phe Leu Trp Arg Lys
  305              310              315
Leu Asp Ser Gly Gln Thr Leu Pro Leu Gly Lys Leu Pro Leu Lys Val
              325              330              335
Val Tyr His Thr Pro Cys His Met Glu Lys Met Gly Trp Ser Ile Tyr
              340              345              350
Thr Leu Glu Leu Leu Arg Leu Ile Pro Gly Leu Glu Leu Thr Val Leu
              355              360              365
Asp Ser Arg Cys Cys Gly Ile Ala Gly Thr Tyr Gly Phe Lys Arg Glu
              370              375              380
Asn Tyr Pro Thr Ser Gln Ala Ile Gly Ala Pro Leu Phe Arg Gln Ile
              385              390              395
Glu Glu Ser Gly Ala Asp Ile Val Val Thr Asp Cys Glu Thr Cys Lys
              400              405              410
Trp Gln Ile Glu Met Ser Thr Ser Lys Arg Cys Glu His Pro Ile Thr
              415              420              425
Leu Leu Ala Lys Ala Leu Ala
              430              435              440

```

<210> 9799

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 9799

```

Lys Ala Ser Ile Ser Leu Glu Gly Arg Met Asp Asn Phe Gln Lys Asp
  1              5              10
Ile Asp Asp Arg Ala Asn Leu Thr Leu Ser Asn Arg Phe Glu Leu Leu
              20              25              30
Leu Phe Arg Leu Gly Thr Ser Leu Asn Glu Asn Lys Ser Glu Leu Phe
              35              40              45
Gly Ile Asn Val Phe Lys Leu Arg Glu Ile Val Pro Met Pro Thr Phe
              50              55              60
Thr Lys Pro Ala Gly Met Lys Ser Pro Leu Met Gly Met Val Asn Ile
              65              70              75
Arg Asp Gln Val Ile Pro Val Ile Asp Leu Ala Ala Val Ala Gly Cys
              85              90              95
Lys Pro Ala Thr Gly Leu Asn Ile Leu Leu Ile Thr Glu Tyr Ala Arg
              100              105              110
Ser Val Gln Ala Phe Ala Val Glu Ser Val Glu Asn Ile Met Arg Leu
              115              120              125
Asp Trp Lys Gln Val His Ala Ala Glu Thr Ala Val Ser Gly Arg Tyr
              130              135              140
Ile Thr Ser Ile Ala Cys Leu Asp Glu Lys Thr Asp Thr Asn Asp Leu
              145              150              155
Ala Met Val Leu Asp Val Glu Gln Ile Leu Tyr Asp Ile Thr Pro Ala
              165              170              175
Asn His Asp Leu His Ala Thr His Leu Glu Thr Thr Lys Phe Asn Ile
              180              185              190
Lys Pro Gly Ser Val Ala Ile Val Ala Glu Asp Ser Lys Val Ala Arg
              195              200              205
Ser Met Leu Glu Lys Gly Leu Gln Ala Met Glu Ile Pro Ala Gln Leu
              210              215              220
His Ile Thr Gly Lys Asp Ala Trp Glu Lys Ile Thr Gln Leu Ala Ala
              225              230              235
Gln Ala Gln Ala Glu Gly Val Pro Val Thr Asp Lys Ile Ala Leu Val
              245              250              255
Leu Thr Asp Leu Glu Met Pro Glu Met Asp Gly Phe Thr Leu Thr Arg

```

```

          260                      265                      270
Lys Ile Lys Thr Asp Pro Val Leu Lys Asp Ile Pro Val Val Ile His
          275                      280                      285
Ser Ser Leu Ser Gly Asn Ala Asn Glu Asp His Ile Arg Lys Val Lys
          290                      295                      300
Ala Asp Gly Tyr Val Ala Lys Phe Glu Leu Asn Glu Leu Ser Ser Val
305                      310                      315                      320
Ile Glu Glu Val Leu Asp Arg Ser Met Lys Lys Ile Glu Gly Pro Leu
          325                      330                      335
Ile Ser Arg Lys Gln Leu Ala
          340

```

<210> 9800

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 9800

```

Tyr Val Ser Trp Asn Asn Trp Gly Ala Ser Cys Ile Thr Pro Asp Glu
1          5          10
Arg Phe Ala Ser Gln Glu Phe Asp Leu Phe Leu Thr Asp Asn Pro Ser
          20          25          30
Asn Leu Thr Ala Ser Gly Leu Leu Ser Asp Asp Glu Pro Gly Val
          35          40          45
Arg Lys Ile Gly Pro Gly Gln Leu Arg Val Asn Phe Asn Met Ser Asn
          50          55          60
Ala Met Gln Glu Ala Val Leu Gln Leu Ile Glu Glu Asn Leu Ala Gln
65          70          75          80
Glu Glu Ile Leu Glu Ser Pro Leu Gly Gly Asp Glu Asn Ala Glu Leu
          85          90          95
His Ala Ser Gly Tyr Tyr Ser Leu Phe Val Asp Thr Val Pro Asp Asp
          100          105          110
Val Lys Arg Leu Tyr Thr Glu Ser Ala Ala Gln Asp Phe Ala Ala Leu
          115          120          125
Ala Gln Thr Ala His Arg Leu Lys Gly Val Phe Ala Met Leu Asn Leu
          130          135          140
Val Pro Gly Lys Gln Leu Cys Glu Thr Leu Glu His Leu Ile Arg Glu
145          150          155          160
Lys Asp Ala Ser Gly Ile Glu Lys Tyr Ile Ser Asp Ile Asp Ala Tyr
          165          170          175
Val Lys Ser Leu Leu
          180

```

<210> 9801

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 9801

```

Leu Gly Trp Val Phe Thr Phe Arg Arg Thr Phe Thr Val Ala Val Leu
1          5          10          15
Gly Asp Gly Gln Asp Cys Ala Phe Ala Thr Arg Asn Asp Gln Gly Asn
          20          25          30
Asn Gly Val Phe Thr Arg Gln Leu Asp Thr Thr His Ala Gly Arg Arg
          35          40          45
Thr Thr His Cys Ala His Gly Val Leu Phe Lys Ala His His Phe Thr
          50          55          60
Gly Gly Arg Glu Glu His His Phe Ile Arg Thr Gly Arg Gln Ile His
65          70          75          80
Ala Asp Gln Phe Val Ala Phe Val Gln Val His Arg Asp Asn Pro Gly
          85          90          95

```

```

Arg Thr Trp Thr Ala Glu Leu Gly Gln Cys Gly Phe Leu His Gly Thr
      100      105      110
Ala Arg Gly Arg His Lys Asp Val His Ala Leu Phe Val Leu Ala Tyr
      115      120      125
Arg Gln Tyr Gly Gly Asp Thr Phe Val Arg Phe Gln Arg Gln Gln Val
      130      135      140
Asp Asp Trp Thr Ser Thr Arg Ala Thr Ala Cys Phe Arg Gln Leu Ile
      145      150      155      160
Asp Phe His Pro Val Gln Thr Ala Pro Ala Gly Glu Ala Glu Asp Arg
      165      170      175
Val Met Gly Val Arg His Gln Gln Thr Ile Asn Glu Val Phe Phe Phe
      180      185      190
Asn Thr Arg Arg Arg Phe Ala Phe Thr Ala Pro Thr Leu Ser Phe Val
      195      200      205
Val Gly Gln Arg Leu Ile Leu His Val Ala Leu Val Arg Gln Arg His
      210      215      220
Tyr His Val Phe Ala Val Asp Gln Ile Phe Asn Val Asp Ile Arg Ala
      225      230      235      240
Val Gly Arg Asp Phe Gly Ala Thr Leu Ile Ala Glu Leu Ile Ala Asn
      245      250      255
Gln Leu Gln Leu Phe Thr Asp His Phe His Gln Ala Leu Cys Ala Thr
      260      265      270
Gln Asp Met Gln Gln Leu Gly Asn Leu Leu Gln Gln Leu Phe Val Leu
      275      280      285
Val Glu Gln Phe Phe Met Leu Lys Ala Gly Gln Phe Leu Gln Thr Gln
      290      295      300
Ile Gln Asn Arg Leu Gly Leu Leu Phe Ser Gln Val Val Leu Thr Val
      305      310      315      320
Thr His Ala Glu Phe Arg Leu Gln Pro Leu Arg Thr Arg Ser Val Ile
      325      330      335
Ala Gly Thr Phe Gln His Arg Arg His Val Ala Gln Ile Pro
      340      345      350

```

<210> 9802

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 9802

```

Thr Arg Asn Gln Arg Arg Leu Arg Phe Cys Trp Arg Arg Arg Thr Ala
1      5      10      15
Asp Gln Leu Asp Asp Arg Val Asp Val Arg Gln Arg Asn Gly Gln Cys
      20      25      30
Phe Lys Asp Met Gly Thr Val Ala Arg Phe Ala Gln Phe Glu Asp Gly
      35      40      45
Thr Ala Ser His His Phe Thr Ala Val Thr His Glu Arg Ala Gln Asp
      50      55      60
Leu Phe Gln Val His Asp Leu Arg Leu Ala Met Val Gln Arg Asn His
      65      70      75      80
Val Asp Thr Glu Gly Asp Leu Lys Leu Ser Leu Gly Val Lys Val Val
      85      90      95
Gln His Asn Phe Thr His Arg Val Ala Leu Asp Phe Asn His Asp Ala
      100      105      110
His Thr Val Phe Val Arg Leu Val Thr Gln Arg Ala Asp Ala Phe Asn
      115      120      125
Ala Phe Phe Phe Tyr Gln Leu Gly Asp Phe Phe Asn Gln Ser Arg Phe
      130      135      140
Val His Leu Ile Arg Asp Leu Val Asn Asn Asn Gly Phe Thr Ala Gly
      145      150      155      160
Phe Gly Val Arg Phe His Phe Gly Ala Gly Thr Asp Val Asn Leu Ala
      165      170      175

```

Ala Thr Gly Thr Val Arg Phe Phe Asn Thr Ala Thr Ala Ile Asp Asp
 180 185 190
 Cys Arg Arg Arg Glu Val Arg Ala Arg Asp Val Phe His Gln Pro Phe
 195 200 205
 Asn Ala Asp Val Phe Ile Val Asn Val Gly Gln Ala Ala Val Asp His
 210 215 220
 Phe Arg Asp Ile Val Arg Arg Asn Val Gly Cys His Thr Asp Gly Asp
 225 230 235 240
 Thr Gly Arg Thr Val His Gln Gln Val Trp Asp Leu Arg Trp His Asp
 245 250 255
 Val Arg Asn Phe Phe Arg Ala Val Val Val Ile Asn Glu Ile Asn Arg
 260 265 270
 Leu Phe Phe Gln Val Ser His Gln Leu Met Gly Asn Leu Arg Gln Thr
 275 280 285
 Asp Phe Arg Ile Thr His Cys Arg Gly Gly Val Ala Val Asp Arg Thr
 290 295 300
 Lys Val Thr Leu Thr Ile Tyr Gln His Val Thr Gln Arg Glu Gly Leu
 305 310 315 320
 Arg His Thr Asp Asn Gly Ala Val His Arg Asp Ile Thr Met Arg Met
 325 330 335
 Val Phe Thr Asp Tyr Val Thr Asn Asp Thr Gly Arg Phe Phe Val Gly
 340 345 350
 Phe Ile Pro Val Ile Ala Gln Tyr Val His Gly Val 365
 355 360

<210> 9803

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 9803

Ser Gln His Arg Arg Pro Glu Arg Leu Pro Ala Leu Met Thr Arg Val
 1 5 10 15
 Thr Leu Ser Leu Ser Gly Thr Glu Val Leu Cys Gln Glu Glu His Pro
 20 25 30
 Ser Leu Leu Val Ala Leu Glu Ala His Gln Val Glu Val Glu Tyr Gln
 35 40 45
 Cys Arg Glu Gly Tyr Cys Gly Ser Cys Arg Cys Arg Leu Val Ala Gly
 50 55 60
 Gln Val Asp Trp Leu Thr Glu Pro Leu Ala Phe Ile Ser Glu Gly Glu
 65 70 75 80
 Ile Leu Pro Cys Cys Cys Arg Ala Lys Gly Asp Ile Glu Ile Glu Met
 85 90 95

<210> 9804

<211> 443

<212> PRT

<213> Enterobacter cloacae

<400> 9804

Thr Ser Ala Gly Lys Ala Phe Ser Pro Ser Pro Gly Ala Met Pro Cys
 1 5 10 15
 Ala Lys Ala Asn Leu Pro Ala Gly Ser Ile Arg Gly Phe Ala Val Trp
 20 25 30
 Arg Arg Ser Thr Thr Met Lys Phe Asp Thr Val Ile Val Gly Gly Gly
 35 40 45
 Leu Ala Gly Leu Leu Cys Gly Leu Lys Leu Thr Gln Arg Gly Leu Arg
 50 55 60
 Cys Ala Ile Val Thr Arg Gly Gln Ser Ala Leu His Phe Ser Ser Gly

65					70					75				80
Ser	Leu	Asp	Leu	Leu	Gly	Ala	Leu	Ser	Phe	Ala	Asp	Leu	Pro	Pro
				85					90				95	Glu
His	Pro	Tyr	Arg	Leu	Thr	Gly	Ala	Glu	Asn	Met	Ala	Arg	Phe	Ala
			100					105					110	Cys
Glu	Thr	Glu	His	Leu	Leu	Thr	Ala	Cys	Gly	Ala	Arg	Met	Gln	Gly
		115					120					125		Asp
Ala	Glu	Gln	Asn	His	Gln	Arg	Val	Thr	Pro	Leu	Gly	Thr	Leu	Arg
		130				135					140			Ala
Ala	Trp	Leu	Ser	Pro	Glu	Glu	Val	Pro	Val	Ala	Pro	Ile	Ala	Glu
145					150					155				160
Arg	Val	Arg	Val	Val	Gly	Ile	Ser	Gly	Phe	Leu	Asp	Phe	Gln	Pro
			165						170					175
Leu	Ala	Ala	Ala	Ser	Leu	Arg	Gln	Gln	Gly	Val	Gln	Val	Asp	Thr
			180					185					190	Ala
Glu	Ile	Asp	Leu	Pro	Glu	Leu	Asp	Val	Leu	Arg	Glu	Asn	Pro	Ser
		195					200					205		Glu
Phe	Arg	Ala	Val	Asn	Ile	Ala	Arg	Leu	Leu	Asp	Asn	Glu	Ser	Tyr
		210				215					220			Trp
Pro	Gln	Leu	Tyr	Ala	Ala	Leu	Gln	Pro	Leu	Gly	Glu	Thr	Cys	Asp
225					230					235				Ala
Leu	Phe	Met	Pro	Ala	Cys	Phe	Gly	Leu	Thr	Asp	Asn	Arg	Leu	Trp
			245					250					255	Arg
Trp	Leu	Ser	Ala	Arg	Leu	Pro	Cys	Thr	Leu	Gly	Leu	Leu	Pro	Thr
			260					265					270	Leu
Pro	Pro	Ser	Val	Pro	Gly	Ile	Arg	Leu	His	Thr	Gln	Leu	Gln	Arg
		275					280					285		Gln
Phe	Val	Ala	Gln	Gly	Gly	Val	Trp	Met	Ala	Gly	Asp	Glu	Val	Lys
		290				295					300			Lys
Ile	Thr	Leu	Val	Glu	Gly	Ala	Val	Ser	Asp	Ile	Trp	Thr	Arg	Asn
305					310					315				His
Gly	Asp	Ile	Pro	Leu	Arg	Ala	Arg	Tyr	Thr	Val	Leu	Ala	Ser	Gly
			325						330				335	Ser
Phe	Phe	Ser	Asn	Gly	Leu	Leu	Ser	Ser	Arg	Asp	Gly	Val	Arg	Glu
			340					345					350	Ala
Ile	Leu	Gly	Leu	Asp	Val	Arg	Gln	Ser	Ala	Ser	Arg	Ala	Asp	Trp
		355					360					365		Tyr
Gln	Ser	Asp	Phe	Phe	Thr	Pro	Gln	Pro	Trp	Gln	Gln	Phe	Gly	Val
		370				375						380		Ile
Val	Asp	Ser	Gln	Leu	Arg	Pro	Arg	Leu	Gly	Gly	Glu	Pro	Val	Glu
385					390					395				Asn
Leu	Tyr	Ala	Ile	Gly	Ser	Val	Leu	Gly	Gly	Tyr	Asp	Pro	Val	Ala
			405						410				415	Gln
Gly	Cys	Gly	Gly	Gly	Val	Cys	Ala	Val	Thr	Ala	Leu	His	Val	Ala
			420					425					430	Glu
Gln	Ile	Ile	Gln	Arg	Arg	Glu	Arg	Ala	Gln					
		435					440							

<210> 9805

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 9805

Thr	Met	Lys	Lys	Gln	Leu	Leu	Ser	Thr	Leu	Ala	Ala	Ser	Val	Leu	Leu
1				5					10					15	
Leu	Ser	Ala	Ser	Val	Val	Gln	Ala	Gln	Asp	Ala	Pro	Ser	Arg	Thr	Glu
			20					25					30		
Cys	Ile	Ala	Pro	Ala	Lys	Pro	Gly	Gly	Gly	Phe	Asp	Leu	Thr	Cys	Lys
		35					40					45			
Leu	Ile	Gln	Val	Ser	Leu	Leu	Glu	Thr	Lys	Ala	Ile	Glu	Lys	Pro	Met

```
<210> 9806
<211> 256
<212> PRT
<213> Enterobacter cloacae
```

<400> 9806																
Arg	Tyr	Gln	Asp	Ser	Arg	Gln	Arg	Arg	Lys	Gly	Arg	Val	Lys	Lys	Val	
1				5					10					15		
Ser	Glu	Val	Leu	His	Trp	Thr	Pro	Asp	His	Ala	Glu	His	Lys	Gly	Lys	
			20					25					30			
Met	Met	Lys	Ser	Asp	Tyr	Ala	Lys	Gln	Ile	Glu	Leu	Ile	Ser	Gly	Pro	
		35					40					45				
Leu	Glu	Ala	Ala	Met	Glu	Ala	Leu	Ala	Gly	Thr	Leu	Ser	Ala	Asn	Gln	
		50				55					60					
Glu	Ile	Val	Leu	His	Asn	Leu	Thr	Thr	Pro	Glu	Gln	Ser	Val	Val	Lys	
65					70					75					80	
Ile	Ile	Asn	Gly	His	Val	Ser	Gly	Arg	Lys	Ala	Gly	Asp	Asn	Leu	Leu	
				85					90					95		
Ser	Gly	Pro	Glu	Lys	Asp	Lys	Gly	Phe	Ala	Leu	Leu	Leu	Lys	Asn	Asn	
			100					105					110			
Lys	Asp	Ser	Thr	Pro	Val	Thr	Val	Lys	Asn	Tyr	Lys	Thr	Thr	Thr	Ala	
		115					120					125				
Ser	Gly	Arg	Ile	Leu	Asn	Ser	Ala	Ser	Thr	Ile	Tyr	Tyr	Ser	Glu	Glu	
		130				135					140					
Gly	Val	Pro	Leu	Met	Ala	Phe	Cys	Ile	Asn	Ile	Asp	Thr	Ser	Pro	Tyr	

```

145          150          155          160
Glu Gln Met Arg Lys Cys Leu Asp Ala Ile Thr Gly Ser Pro Leu Ala
165          170          175
Asp Ser Asp Pro Gln Asp Met Asn Leu Gly Gly Ile Ile Glu Gln Ser
180          185          190
Ile Gln Glu Ile Ile Asp Lys His Ser Val Pro Gly Lys Lys Val Gln
195          200          205
Lys Ala Gln Arg Leu Lys Ile Val Ala Glu Met His Ala Lys Gly Ile
210          215          220
Phe Lys Met Arg Gly Gly Val Gln His Ala Ala Gln Ala Leu Gly Val
225          230          235          240
Thr Arg Tyr Thr Val Tyr Asn Asp Leu Glu Val Met Gly Glu Lys
245          250          255

```

<210> 9807
 <211> 116
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 9807
Asp Leu Leu Met Thr Leu Thr Lys Ser Phe Ala Ala Leu Met Val Ala
1      5      10      15
Val Ser Ile Glu Val Ile Ala Thr Thr Leu Leu Ser Leu Ser Asn Ser
20      25      30
Phe Gln Arg Pro Val Val Gly Leu Ser Ala Ile Ile Ser Tyr Gly Leu
35      40      45
Ser Tyr Tyr Phe Leu Ser Ile Ala Leu Arg Arg Ile His Leu Gly Val
50      55      60
Ala Tyr Ala Ile Trp Ser Ala Val Gly Leu Phe Ser Met Thr Val Ile
65      70      75      80
Gln Thr Arg Phe Phe Asp Tyr Ile Val Ser Gln Arg Ala Trp Met Gly
85      90      95
Leu Gly Met Val Ile Ala Gly Thr Ile Thr Leu Asn Leu Ala Ile Lys
100      105      110
Gln Asn Lys
115

```

<210> 9808
 <211> 821
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 9808
Lys Ala Ala Phe Trp Lys Arg Ser Glu Leu Ala Ala Ser Ser Pro Gly
1      5      10      15
Trp Arg Ser Ser Pro Phe Asn Arg Arg Asn Gly Met Thr Thr Glu Met
20      25      30
Leu Ser Leu Arg Val Val Gln Leu Arg Glu Ala Tyr Leu Gln Ala Lys
35      40      45
Pro Phe Val Ser Ala His Arg Ala Val Ser Val Thr Gln Val Tyr Lys
50      55      60
Asp Asn Pro Gly Met Asn Asn Ser Leu Leu Arg Ala Leu Ala Phe Arg
65      70      75      80
Arg Ala Cys Glu Thr Ala Pro Leu His Val Ala Gln Asn Glu Leu Ile
85      90      95
Val Ser His Pro Ala Gly Gly Ala Arg Gly Gly Glu Val Ser Pro Glu
100      105      110
Ile Ser Trp Arg Trp Leu Ala Asp Glu Leu Glu Thr Leu Pro Ala Arg
115      120      125
Ala Gln Asp Pro Tyr Gln Ile Asp Glu Glu Thr Lys Arg Leu Leu Arg
130      135      140

```

Glu	Glu	Val	Phe	Pro	Tyr	Trp	Gln	Gly	Arg	Ser	Leu	Asp	Glu	Met	Ala
145					150					155					160
Gln	Thr	Gln	Leu	Lys	Thr	His	Gly	Leu	Trp	His	Trp	Cys	His	Asp	Asp
				165					170						175
Gly	Ile	Cys	Asp	Val	Thr	Ile	Lys	Thr	Gln	Asn	Gly	Gly	Gly	Asp	Ser
			180					185						190	
Cys	Pro	Gly	Tyr	Asp	Asn	Ile	Leu	Leu	Thr	Lys	Gly	Ile	Lys	Gly	Ile
		195					200					205			
Arg	Glu	Glu	Ala	Ala	Ala	Leu	Leu	Leu	Ala	Leu	Asp	Pro	Ala	Thr	Pro
	210					215					220				
Glu	Gly	Cys	Asp	Ala	Phe	Asn	Phe	Tyr	Thr	Ala	Met	Leu	His	Thr	Cys
225				230						235					240
Asp	Gly	Val	Val	Thr	Tyr	Ala	Arg	Arg	Tyr	Ala	His	Tyr	Leu	Asn	Ala
				245					250					255	
Leu	Ala	Glu	Lys	Glu	Gly	Asp	Pro	Leu	Arg	Arg	Asp	Glu	Leu	Leu	Gln
			260					265					270		
Leu	Ser	Gly	Ile	Cys	Ser	Arg	Val	Pro	Glu	Gln	Pro	Pro	Gln	His	Phe
		275					280					285			
His	Asp	Ala	Leu	Gln	Ala	Ile	Trp	Phe	Val	His	Ser	Leu	Phe	Met	Leu
	290					295					300				
Glu	Glu	Asn	Gln	Thr	Gly	Ile	Ser	Leu	Gly	Arg	Val	Asp	Gln	Tyr	Leu
305					310					315					320
Trp	Pro	Leu	Leu	Glu	Arg	Asp	Leu	His	Asp	Gly	Thr	Leu	Asn	Leu	Gln
				325					330					335	
Gln	Ala	Glu	Glu	Leu	Leu	Cys	Cys	Trp	Leu	Ile	Lys	Met	Ala	Glu	Thr
			340					345					350		
Leu	Trp	Ile	Cys	Ser	Glu	Ser	Thr	Ala	Met	Tyr	Phe	Ala	Gly	Tyr	Gln
		355					360					365			
Pro	Phe	Ile	Asn	Leu	Val	Val	Gly	Gly	Gln	Lys	Arg	Glu	Gly	Gly	Asp
	370					375					380				
Ala	Thr	Asn	Pro	Leu	Thr	Leu	Met	Ile	Met	Asp	Cys	Ser	Ala	Arg	Leu
385					390					395					400
Lys	Ile	Tyr	Gln	Pro	Gly	Leu	Ala	Val	Arg	Ile	His	Asn	Gln	Ser	Pro
				405					410					415	
Gln	Pro	Phe	Met	Arg	Lys	Val	Val	Asp	Val	Val	Arg	Ser	Gly	Met	Gly
			420					425					430		
Phe	Pro	Ala	Cys	His	Phe	Asp	Asp	Ala	His	Ile	Arg	Met	Met	Leu	His
		435					440					445			
Lys	Gly	Phe	Ser	Tyr	Glu	Asp	Ala	Arg	Asp	Tyr	Cys	Leu	Met	Gly	Cys
	450					455					460				
Val	Glu	Pro	Gln	Lys	Ser	Gly	Lys	Met	Tyr	Gln	Trp	Thr	Ser	Val	Gly
465					470					475					480
Tyr	Thr	Thr	Phe	Thr	Ala	Ala	Ile	Glu	Leu	Ala	Leu	His	Asn	Gly	Arg
				485					490					495	
Thr	Gln	Asn	Gly	Lys	Gln	Cys	Gly	Pro	Ala	Thr	Gly	Asp	Val	Ser	Gln
		500						505					510		
Phe	Ser	Arg	Tyr	Glu	Glu	Val	Glu	Ser	Ala	Val	Arg	Thr	Gln	Leu	Ser
		515					520					525			
Ala	Ile	Val	Arg	Lys	Ala	Ala	Glu	Ala	Thr	Leu	Ile	Val	Gln	Lys	Leu
		530				535						540			
His	Ala	Glu	His	Ala	Arg	Lys	Pro	Leu	Met	Ser	Cys	Leu	Ile	Glu	Gly
545					550					555					560
Cys	Ile	Ala	Thr	Ala	Lys	Asp	Val	Thr	Gln	Gly	Gly	Ala	Arg	Leu	Asn
				565					570					575	
Ala	Gly	Pro	Gly	Leu	Ile	Trp	Thr	Gly	Leu	Ala	Asp	Cys	Val	Asn	Ser
			580					585					590		
Leu	Met	Ala	Ile	Arg	Thr	Leu	Val	Phe	Asp	Thr	Ala	Arg	Phe	Thr	Leu
		595					600					605			
Arg	Gln	Leu	Val	Glu	Ala	Leu	Glu	His	Asn	Phe	Val	Gly	Tyr	Gln	Glu
		610				615					620				
Ile	Leu	Thr	Ala	Cys	Gln	Arg	Ala	Pro	Lys	Tyr	Gly	Asn	Asp	Ile	Arg

625 630 635 640
 Glu Val Asp Asp Ile Ala Arg Glu Leu Val Arg Phe Leu Glu Gln Glu
 645 650 655
 His Arg Gln Tyr Arg Met Leu Tyr Ala Pro Phe Ala Phe Gly Thr Leu
 660 665 670
 Ser Ile Ser Asn Asn Thr Pro Phe Gly Leu Ile Thr Gly Ala Leu Pro
 675 680 685
 Ser Gly Arg Leu Ala Gly Lys Pro Leu Ala Asp Gly Ile Ser Pro Ala
 690 695 700
 Gln Gln Thr Asp Tyr Leu Gly Pro Thr Ala Ile Ile Asn Ser Val Ser
 705 710 715 720
 Arg Ile Asn Val Glu Glu Met Asp Ile Gly Met Val His Asn Ile Lys
 725 730 735
 Leu Met Phe Gly Met Leu Glu Thr Pro Glu Gly Gln Asn Ser Leu Ile
 740 745 750
 His Leu Leu Arg Thr Ala Ser Ile Leu Gly Asn Ala Gln Leu Gln Phe
 755 760 765
 Ser Tyr Val Asp Asp Glu Thr Leu Arg Lys Ala Gln Lys His Pro Ala
 770 775 780
 Asp Tyr Arg Asn Leu Met Ile Arg Val Ala Gly Tyr Ser Ala Phe Phe
 785 790 795 800
 Val Glu Leu Ser Lys Glu Val Gln Asp Glu Ile Ile Ser Arg Thr Thr
 805 810 815
 Gln Arg His Phe
 820

<210> 9809

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 9809

Gly Ile Gly Ile Lys Met Lys Lys Leu Val Ala Val Ile Ser Leu Ala
 1 5 10 15
 Phe Val Thr Leu Thr Val Ala Gly Cys Ser Ser Asp Tyr Val Leu Gln
 20 25 30
 Lys Lys Asn Gly Glu Met Ile Ile Thr His Gly Lys Pro Glu Val Asp
 35 40 45
 Asp Asp Asn Gly Leu Ile Thr Tyr Glu Asp Val Ala Gly Asn Glu His
 50 55 60
 Ala Ile Asn Arg Asp Gln Ile Ile Gln Met Ile Glu Lys
 65 70 75

<210> 9810

<211> 383

<212> PRT

<213> Enterobacter cloacae

<400> 9810

Arg Glu Gly Val Ser Ala Gly Ala Glu Arg Gly Tyr Gly Leu Val Arg
 1 5 10 15
 Ser Arg Tyr Glu Val Ala Phe Pro Pro Ser Pro Ser Pro Val Gly Glu
 20 25 30
 Gly Val Val Arg Ala Tyr Phe Gln Asp Asn Asp Phe Pro Met Pro His
 35 40 45
 Leu Ser Thr Arg Val Leu Gln Gly Leu Leu Thr Leu Leu Thr Leu
 50 55 60
 Phe Gly Leu Leu Leu Val Thr Phe Ala Leu Ser Ala Phe Ser Pro Val
 65 70 75 80
 Asp Arg Val Leu Gln Ile Val Gly Asp His Ala Ser Gln Ser Thr Tyr
 85 90 95

```

Asp Gln Val Arg His Gln Leu Gly Leu Asp Arg Pro Leu Pro Val Gln
      100      105      110
Phe Trp His Tyr Leu Gln Asn Leu Ala His Gly Asp Leu Gly Thr Ala
      115      120      125
Ser Ala Thr Gly Gln Pro Val Leu Gln Asp Leu Leu His Ala Phe Pro
      130      135      140
Ala Thr Leu Glu Leu Ala Thr Leu Ala Leu Ile Ile Gly Thr Val Leu
      145      150      155      160
Gly Val Ile Ala Gly Val Leu Cys Ala Arg Tyr Ala Gly Ser Pro Leu
      165      170      175
Asp Leu Ala Ile Arg Thr Leu Thr Leu Leu Gly Asn Ser Val Pro Ile
      180      185      190
Phe Trp Leu Gly Leu Leu Met Leu Ala Leu Phe Tyr Ala Lys Leu Gln
      195      200      205
Trp Ser Ala Gly Pro Gly Arg Leu Asp Asp Ile Trp Gln Phe Thr Val
      210      215      220
Glu Pro Arg Thr Gly Phe Ala Leu Val Asp Thr Trp Leu Ser Gly Asp
      225      230      235      240
Arg Glu Ala Phe Arg Asn Ala Ile Ser His Leu Val Leu Pro Val Leu
      245      250      255
Leu Leu Ala Tyr Thr Ser Leu Ala Ser Ile Thr Arg Leu Thr Arg Ser
      260      265      270
Ala Cys Leu Ser Glu Met Asn Lys Glu Tyr Ile Leu Leu Ala Arg Ala
      275      280      285
Lys Gly Ala Gly Glu Met Thr Ile Leu Leu Arg His Val Leu Pro Asn
      290      295      300
Ile Arg Ser Thr Leu Leu Thr Val Ile Ala Leu Ala Tyr Thr Ser Met
      305      310      315      320
Leu Glu Gly Ala Val Leu Thr Glu Thr Val Phe Ser Trp Pro Gly Ile
      325      330      335
Gly Arg Tyr Leu Thr Thr Ala Leu Phe Ala Gly Asp Thr Thr Ala Val
      340      345      350
Met Gly Gly Thr Leu Leu Ile Gly Val Cys Phe Val Leu Ile Asn Asn
      355      360      365
Leu Thr Asp Leu Leu Val Arg Ala Thr Asp Pro Arg Val Arg
      370      375      380

```

<210> 9811

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 9811

```

Leu Pro Thr Ala Cys Arg Ser Phe Leu Thr Ser Gly Gly Leu Pro Pro
1      5      10      15
Phe Gln Ala Gly Arg Phe Cys Leu Pro Ala Trp Pro Leu Thr Cys Trp
      20      25      30
Ala Met Ala Cys Ala Thr Tyr Trp Ser His Ser Met Thr Glu His Arg
      35      40      45
Val Ile Val Asp Ala Leu Asn Ile Asp Tyr Pro Ala Ala Arg Val Val
      50      55      60
Asn Asn Leu Ser Phe Thr Leu Gly Lys Glu Arg Leu Ala Leu Val Gly
      65      70      75      80
Glu Ser Gly Ser Gly Lys Ser Met Ser Ala Arg Ala Leu Met Gly Leu
      85      90      95
Val Arg Lys Pro Gly Ile Val Ser Ala Lys Arg Leu Asn Val Leu Gly
      100      105      110
Asn Asp Leu Leu Thr Leu Asn Ser Arg Arg Trp Gln Ala Leu Arg Gly
      115      120      125
Asn Gly Ile Ala Met Val Leu Gln Asp Pro Arg Tyr Ala Leu Asn Pro
      130      135      140

```

Val Lys Thr Val Ala Ala Gln Leu Asp Glu Ala Leu Thr Leu His Gln
 145 150 155 160
 Arg Leu Pro Arg Ala Glu Arg Leu Ala Arg Ile His Asp Ile Ile Arg
 165 170 175
 Ala Val Gly Leu Asn Glu His Val Leu Gln Arg Tyr Pro Gly Glu Leu
 180 185 190
 Ser Gly Gly Met Gly Gln Arg Val Met Ile Ala Ile Ala Leu Val Asn
 195 200 205
 Asn Pro Gln Val Leu Ile Ala Asp Glu Pro Thr Ser Ala Leu Asp Ala
 210 215 220
 Arg Leu Arg Asn Gln Ile Leu Glu Leu Leu Val Gln Gln Cys Glu Ala
 225 230 235 240
 Arg Gln Met Ala Met Leu Leu Ile Ser His Asp Leu Pro Leu Val Ala
 245 250 255
 Glu His Cys Asp Arg Val Leu Val Met Tyr Gln Gly Glu Asn Val Asp
 260 265 270
 Glu Met Ala Ala Ser Gln Leu Pro Gln Ala Thr His Pro Tyr Thr Arg
 275 280 285
 Thr Leu Trp Thr Cys Arg Pro Asn Ala Gly Thr Phe Gly Lys Met Leu
 290 295 300
 Pro Thr Leu Asp Arg Ser Gln Pro Trp Lys Glu Asp Asp Asn Gly Thr
 305 310 315 320
 Arg

<210> 9812

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 9812

Asp Val Phe Asp Met Glu Leu Arg Tyr Leu Arg Tyr Phe Val Ala Val
 1 5 10 15
 Ala Arg Glu Arg His Phe Thr Arg Ala Ala Lys Ala Leu Gly Ile Ser
 20 25 30
 Gln Pro Pro Leu Ser Gln Gln Ile Lys Arg Leu Glu Glu Val Gly
 35 40 45
 Thr Pro Leu Phe Arg Arg Leu Thr Arg Gly Val Glu Leu Thr Glu Ala
 50 55 60
 Gly Glu Ala Phe Tyr Glu Asp Ala Cys Lys Ile Leu Ala Leu Ser Asp
 65 70 75 80
 Ala Ala Leu Glu Lys Ala Arg Gly Ile Ala Arg Gly Leu Asn Gly Ser
 85 90 95
 Leu Ser Ile Gly Ile Thr Ser Ser Asp Ala Phe His Pro Lys Ile Phe
 100 105 110
 Ala Leu Ile Arg Gln Phe Gln Val Gln Asn Met Ala Val Gln Val His
 115 120 125
 Gln Val Glu Ala Asn Met Ser Ser Leu Thr Thr Met Leu Ala Glu Gly
 130 135 140
 Glu Leu Asp Ile Ala Phe Val Arg Leu Pro Cys Glu Ser Ser Lys Val
 145 150 155 160
 Phe Glu Leu Lys Ile Leu Asp Arg Glu Pro Met Met Val Ala Leu His
 165 170 175
 Arg Asp His Pro Leu Ala Ala Cys Gly Asp Leu Ala Leu Glu Glu Leu
 180 185 190
 Arg Asp Thr Pro Val Val Leu Phe Pro Gln Glu Val Ala Pro Gly Leu
 195 200 205
 Tyr Asp Arg Val Tyr Gly Ser Cys Glu Arg Ala Gly Ile Asp Met Gln
 210 215 220
 His Thr Leu Gln Ser Ser Gln Leu Ser Ser Ser Leu Ser Met Val Ser
 225 230 235 240

Ala Gly Gly Gly Phe Ala Leu Val Pro Lys Ser Met Ala Ala Ile Ser
 245 250 255
 Pro Pro Asn Val Thr Tyr His Ala Leu Arg Ser Pro Glu Leu Tyr Thr
 260 265 270
 Asp Ile Ala Leu Cys Trp Arg Arg Phe Glu Arg Ser Arg Thr Val Lys
 275 280 285
 Arg Phe Leu Ala Met Met Ser Glu Gly
 290 295

<210> 9813

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 9813

Ala Ser Ala Ser Ser Leu Ile Ser Ser Arg Leu Asn Ile Pro Ala Arg
 1 5 10 15
 Arg Leu Ala Ser Thr Ile Ser Pro Ala Thr Ala Phe Cys Ser Ser Leu
 20 25 30
 Arg Gln Ala Thr Val Gly Lys Ser Ser Glu Ser Ser Thr Ala Gln Arg
 35 40 45
 Val Ser Arg Ser Ala Ser Thr Thr Arg Cys Ala Cys Gly Thr Ser Gly
 50 55 60
 Ser Val Arg Arg Gly Leu Ala Arg Ser Gln Thr Glu Ala Ser Gly Ser
 65 70 75 80
 Arg Trp Ala Gly Asn Gln Thr Thr Glu Gly Ser Thr Val Ala Pro Leu
 85 90 95
 Thr Lys Gly Ala Ser Trp Ala Phe Cys Ser Thr Pro Phe Cys Ser Ala
 100 105 110
 Gln Thr Thr Val Phe Ser Ser His Arg Ala Arg Ser His Pro Ala Leu
 115 120 125
 Ser Ala Phe Cys Val Val Leu Thr Ala Lys Lys Thr Arg Ser Thr Gly
 130 135 140
 Arg Val Met Thr Leu Gly Ser Val Ser Thr Gly Pro Gly Thr Thr Ile
 145 150 155 160
 Ser Pro Ser Ser
 165

<210> 9814

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 9814

Trp Val Lys Asn Asn Ser Ser Arg Arg Ile Pro Phe Tyr Gln Val Asp
 1 5 10 15
 Ala Phe Ser Asp Gly Pro Phe Thr Gly Asn Pro Ala Ala Val Cys Leu
 20 25 30
 Leu Asp Ala Trp Pro Glu Gln Lys Val Leu Gln Arg Ile Ala Thr Glu
 35 40 45
 Asn Asn Leu Ser Glu Thr Ala Phe Val Val Gln Gln Asp Gly Gly Phe
 50 55 60
 Ala Leu Arg Trp Phe Thr Pro Ala Val Glu Val Asp Leu Cys Gly His
 65 70 75 80
 Ala Thr Leu Ala Ala Ala Ser Val Leu Leu Ser Arg Asp Asp Ala Cys
 85 90 95
 Glu Ser Val His Phe Phe Thr Arg Ser Gly Glu Leu Thr Val Thr Ser
 100 105 110
 His Gly Glu Gln Tyr Thr Leu Asp Phe Pro Gln Ala Ile Pro Ser Arg
 115 120 125
 Ile Thr Ala Pro Glu Gly Leu Phe Lys Ala Leu Gly Leu Glu Glu Asn

```
<210> 9815
<211> 325
<212> PRT
<213> Enterobacter cloacae
```

<400>	9815															
Ala	Lys	Arg	Cys	Arg	Met	Arg	Leu	Ser	Ala	Glu	Arg	Arg	Ser	Gly	Ile	
1				5					10					15		
Ser	Glu	Gln	Ala	Tyr	Gly	Trp	Ile	Ser	Asn	Ile	Gln	Arg	Phe	Ser	Leu	
			20					25					30			
His	Asp	Gly	Pro	Gly	Ile	Arg	Ser	Ile	Ile	Phe	Phe	Lys	Gly	Cys	Gln	
		35					40					45				
Met	Arg	Cys	Ala	Trp	Cys	Ala	Asn	Pro	Glu	Gly	Gln	Thr	Ala	Glu	Arg	
	50					55					60					
Asp	Val	Phe	Phe	His	Ala	Asp	Arg	Cys	Leu	His	Cys	Gly	Asn	Cys	Ala	
65				70						75					80	
Asp	Leu	Cys	Pro	Thr	Gly	Leu	His	Ser	Met	Asn	His	Asn	Val	His	Val	
				85					90					95		
Leu	Glu	Arg	Asp	Arg	Lys	Cys	Val	Gly	Cys	Gln	Leu	Cys	Glu	Glu	Arg	
			100					105					110			
Cys	Pro	Ala	Ala	Ala	Leu	Asn	Ile	Val	Gly	Glu	His	Val	Ser	Ala	Gln	
		115					120					125				
Asn	Ala	Phe	Glu	Arg	Val	Met	Ala	Asp	Glu	Ile	Trp	Phe	Arg	Gln	Ser	
	130					135					140					
Gly	Gly	Gly	Val	Thr	Leu	Ser	Gly	Gly	Glu	Val	Ala	Met	Gln	Pro	Glu	
145				150						155					160	
Phe	Ala	Arg	Val	Leu	Ile	Glu	Gln	Leu	Lys	Ala	Glu	Asp	Ile	His	Thr	
				165					170					175		
Ala	Ile	Glu	Thr	Ala	Gly	Tyr	Ala	Ser	Trp	His	Ala	Ile	His	Gln	Ala	
			180					185					190			
Thr	Ala	Gly	Cys	Asp	Leu	Ile	Leu	Tyr	Asp	Leu	Lys	Ser	Ala	Glu	Asp	
		195					200					205				
Val	Leu	His	Thr	Arg	Phe	Thr	Gly	Val	Ser	Asn	Lys	Arg	Ile	Val	Arg	
	210					215					220					
Asn	Leu	Ala	Arg	Leu	Leu	Gln	Gly	Gly	Gln	Gln	Ile	Ile	Ile	Arg	Ile	
225					230					235					240	
Pro	Val	Ile	Pro	His	Phe	Asn	Asp	Ala	Pro	Asp	Gln	Ala	Asp	Lys	Leu	
				245					250					255		
Leu	Ala	Leu	Ile	Ser	Ala	Leu	Thr	Gln	Gly	Lys	Lys	Asn	Phe	Gln	Gly	
		260						265					270			
Val	Glu	Leu	Leu	Pro	Tyr	His	Leu	Phe	Gly	Thr	Gly	Lys	Tyr	Lys	Leu	
		275					280					285				
Leu	Asn	Met	Glu	Tyr	Asp	Trp	Asn	Arg	Gly	Ser	Ala	Asn	Val	Asp	Asn	

```
<210> 9816
<211> 534
<212> PRT
<213> Enterobacter cloacae
```

<400>	9816															
Asn 1	Asn	His	Asn	Ile 5	Phe	Ser	Ser	Gly	Ile 10	Ala	Met	Thr	Lys	Lys 15	Leu	
Leu	Pro	Leu	Leu 20	Val	Leu	Ala	Ala	Leu 25	Ser	Ser	Ala	Ala	His 30	Ala	Ala	
Thr	Pro	Pro 35	Asn	Thr	Leu	Val	Val 40	Ala	Gln	Gly	Leu	Asp 45	Asp	Ile	Val	
Ser	Leu	Asp 50	Pro	Ala	Glu	Ala 55	Asn	Glu	Leu	Ser	Ser 60	Ile	Gln	Thr	Val	
Pro 65	Ser	Leu	Tyr	Gln	Arg 70	Leu	Val	Gln	Pro	Asp 75	Arg	Asp	Asn	Pro	Glu 80	
Lys	Ile	Thr	Pro 85	Val	Leu	Ala	Glu	Ser	Trp 90	Asp	Ala	Asp	Ala	Ala 95	Ala	
Lys	Thr	Leu 100	Thr	Ile	Lys	Leu	Lys 105	Pro	Asp	Ala	Lys	Phe 110	Ser	Ser	Gly	
Asn	Pro	Leu 115	Arg	Pro	Glu	Asp	Val 120	Ile	Phe	Ser	Tyr	Thr 125	Arg	Ala	Val	
Thr	Leu	Asn 130	Lys	Ser	Pro	Ala 135	Phe	Ile	Leu	Asn	Val 140	Leu	Gly	Trp	Asp	
Ala 145	Ser	Asn	Ile	Ala	Ser 150	Gln	Leu	Lys	Lys	Val 155	Asp	Asp	His	Thr	Leu 160	
Thr	Leu	His	Trp 165	Thr	Ala	Asp	Val	Ser	Pro 170	Ser	Val	Ala	Leu	Asn 175	Ile	
Leu	Ser	Thr 180	Pro	Ile	Ala	Ser	Ile 185	Val	Asp	Glu	Lys	Gln 190	Val	Ala	Ala	
Asn	Val	Lys 195	Asp	Asp	Asp	Phe	Gly 200	Asn	Ala	Trp	Leu	Lys 205	Met	His	Ser	
Ala 210	Gly	Ser	Gly	Ala	Phe	Lys 215	Met	Arg	Val	Tyr	Gln 220	Pro	His	Gln	Ala	
Ile 225	Val	Leu	Glu	Ala	Asn 230	Glu	Ser	Ala	Pro	Gly 235	Gly	Ala	Pro	Lys	Leu 240	
Lys	Ser	Ile	Ile 245	Ile	Lys	Asn	Val	Pro	Asp 250	Pro	Ala	Ser	Arg	Arg 255	Leu	
Leu	Ile	Gln 260	Gln	Gly	Asp	Ala	Asp 265	Val	Ala	Arg	Asp	Leu 270	Gly	Ala	Asp	
Gln	Ile	Ser 275	Ala	Leu	Ser	Gly	Lys 280	Pro	Gly	Val	Lys	Val 285	Leu	Ser	Ile	
Pro 290	Ser	Ala	Glu	Gln	Asn	Tyr 295	Leu	Val	Phe	Asn	Thr 300	Gly	Asn	Ser	Ala	
Asn 305	Pro	Leu	Leu	Asn	Asn 310	Pro	Ala	Phe	Trp	Glu 315	Ala	Ser	Arg	Trp	Leu 320	
Val	Asp	Tyr	Glu 325	Gly	Ile	Thr	Lys	Asp	Leu 330	Leu	Lys	Gly	Gln	Tyr 335	Phe	
Val	His	Gln 340	Ser	Phe	Leu	Pro	Val 345	Gly	Leu	Pro	Gly	Ala 350	Leu	Glu	Asp	
Asn	Pro	Phe 355	Thr	Phe	Asp	Pro	Ala 360	Lys	Ala	Lys	Ala 365	Ile	Leu	Ala	Lys	
Ala 370	Gly	Ile	Lys	Asp	Ala	His 375	Phe	Thr	Leu	Asp	Val 380	Glu	Asn	Lys	Pro	
Pro	Phe	Ile	Thr	Ile	Ala	Gln	Ser	Met	Gln	Ala	Ser	Phe	Ala	Gln	Glu	

```

385          390          395          400
Gly Val Lys Val Asp Leu Leu Pro Ala Ala Gly Ser Gln Val Tyr Ala
          405          410          415
Arg Val Arg Ala Lys Gln His Gln Ala Ala Ile Arg Leu Trp Ile Pro
          420          425          430
Asp Tyr Phe Asp Ala His Ser Asn Ala Ser Ala Phe Ala Trp Asn Asp
          435          440          445
Gly Lys Ser Ser Thr Val Ala Gly Leu Asn Gly Trp Lys Ile Pro Glu
          450          455          460
Leu Asn Lys Ala Thr Leu Ala Ala Val Ala Glu Pro Asp Pro Ala Lys
465          470          475          480
Arg Leu Asp Leu Tyr Lys Lys Met Gln Glu Gln Leu Gln His Asn Ser
          485          490          495
Pro Tyr Val Phe Val Asp Gln Gly Lys Thr Gln Ile Val Val Arg Asp
          500          505          510
Asn Val Lys Gly Tyr Gln Gln Gly Leu Asn Ala Asp Met Val Trp Tyr
          515          520          525
Asp Arg Val Met Lys
530

```

<210> 9817

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 9817

```

Cys Ile Arg Val Arg Thr Leu Met Lys Trp Arg Arg Ala Ser Cys Arg
1          5          10          15
Arg Gln Pro Ile Pro Thr Arg Ala Arg Ser Gly Pro Ala Ala Arg Thr
          20          25          30
Pro Gly Arg Leu Ala Arg Cys Cys Arg Arg Ser Thr Val Arg Asn Arg
          35          40          45
Gly Arg Arg Thr Thr Met Ala Leu Val Glu Val Asn Gln Leu Arg Val
          50          55          60
Ser Phe Gly Glu Lys Thr Ala Val Ser Ala Ala Ser Phe Ala Ile Glu
65          70          75          80
Lys Gly Glu Thr Phe Ser Leu Ile Gly Glu Ser Gly Cys Gly Lys Ser
          85          90          95
Thr Leu Leu Arg Val Leu Ala Gly Leu Leu Pro Glu Trp Asn Gly His
          100          105          110
Ile Ser Val Leu Gly Glu Asn Leu Arg Pro Gly Arg Arg Phe Glu Gly
          115          120          125
Ala Leu Arg Arg Asn Val Gln Met Val Phe Gln Asp Pro Trp Ala Ser
          130          135          140
Leu His Pro Asn His Thr Ile Ala Arg Thr Leu Ser Glu Pro Leu Asn
145          150          155          160
Ile His Gly Glu Ser Gln Val Ala Glu Lys Val Ala Asp Ala Leu Gln
          165          170          175
Gln Val Gly Leu Ala Ala Asp Ala Gly Arg Arg Tyr Pro His Gln Leu
          180          185          190
Ser Gly Gly Gln Arg Gln Arg Val Ala Ile Ala Arg Ala Leu Leu
          195          200          205
Arg Pro Gln Leu Leu Leu Asp Glu Pro Thr Ser Ala Leu Asp Met
          210          215          220
Ser Val Gln Ala Glu Ile Leu Asn Leu Leu Asn Arg Leu Lys Ala Gln
225          230          235          240
His Gly Met Thr Tyr Leu Leu Val Ser His Asp Ala Asp Val Ile Ala
          245          250          255
His Met Ser Asp Arg Ala Ala Phe Met Ala His Gly Glu Ile Gln Arg
          260          265          270
Val Phe Asp Arg Glu Ala Met Leu Arg Gly Glu His Arg Met Gly

```

275

280

285

<210> 9818

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 9818

```

Arg Ser Asp Arg Ile Asp Ser Ile Lys Asp Leu His Trp Asp Ile Arg
1      5      10      15
Pro Ser Pro His Ile Ser Thr Met Gln Val Arg Ser Thr Asp Lys Pro
      20      25      30
Leu Thr Leu Asn Asn Ala Ile Asn Ile Ala Trp Leu Ile Gln Ala Thr
      35      40      45
Ser His Trp Leu Leu Thr Thr Arg Pro Tyr Lys His Gln Glu Arg Asp
      50      55      60
Phe Leu Arg Tyr Leu Phe Thr Val Phe Arg Cys Val Ala Thr Asp Arg
65      70      75      80
Trp Ile Phe Arg Arg Ala Val Met Arg Phe
      85      90

```

<210> 9819

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 9819

```

Thr Ile Arg Ser Phe Gln Asp Phe Leu Lys Trp Ser Phe Lys Gln Met
1      5      10      15
Ala Ile Pro Ala Tyr Leu Trp Leu Lys Asp Asp Gly Gly Ala Asp Ile
      20      25      30
Lys Gly Ser Val Asp Ile Tyr Gly Arg Glu Gly Ser Ile Glu Ile Ile
      35      40      45
Ala Leu Asn His Gly Ile Met Gln Pro Thr Asp Lys His Asn Gly Lys
      50      55      60
Ala Thr Ser Leu Arg Ile His Ser Pro Tyr Ser Phe Asp Lys Glu Ile
65      70      75      80
Asp Ala Ser Ser Pro Tyr Leu Tyr Lys Ala Val Ser Thr Gly Gln Lys
      85      90      95
Leu Lys Ser Ala Glu Ile Lys Phe Tyr Arg Ile Asn Asp Ala Gly Gln
      100      105      110
Glu Val Glu Tyr Phe Ser Thr Leu Leu Glu Gly Val Lys Ile Ala Ser
      115      120      125
Val Cys Pro Met Met Leu Asp Ile Lys Asp Pro Asp Tyr Glu Lys His
      130      135      140
Asn His Leu Glu Leu Val Glu Leu Leu Tyr Glu Lys Ile Thr Trp Arg
145      150      155      160
Tyr Val Asp Gly Asn Ile Met His Ser Asp Ser Trp Asn Asp Arg Lys
      165      170      175
Thr Ala

```

<210> 9820

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 9820

```

Gln Val Ser Ala Val Met Met Ala Phe Thr Val Ile Ser Phe Met Val
1      5      10      15
Arg Val Pro Val Leu Ser Glu Gln Thr Thr Val Ile Ala Pro Arg Val

```


195 200 205
 Trp Arg Gly Leu Ala Glu Glu Asp Asn His Gly Gln
 210 215 220

<210> 9822

<211> 484

<212> PRT

<213> Enterobacter cloacae

<400> 9822

Arg Asn Gly Val Thr Met Asn Thr Ser Val Val Ser Pro Gly Arg Ala
 1 5 10 15
 Gly Leu Ile Leu Leu Thr Gly Gln Met Leu Pro Leu Ile Asp Thr
 20 25 30
 Ser Ile Thr Asn Val Ala Leu Asp Ser Ile Thr His Ser Leu His Ala
 35 40 45
 Thr Ala Thr Glu Leu Glu Leu Ile Val Ala Leu Tyr Gly Val Ala Phe
 50 55 60
 Ala Val Cys Leu Ala Pro Gly Ser Lys Leu Gly Asp Asn Leu Gly Arg
 65 70 75 80
 Arg Arg Leu Phe Met Trp Gly Val Ala Cys Phe Gly Leu Ala Ser Leu
 85 90 95
 Leu Cys Gly Met Ala Gly Asn Ile Glu Gln Leu Leu Gly Ala Arg Ile
 100 105 110
 Ile Gln Gly Ala Gly Ala Ala Leu Ile Met Pro Gln Ile Leu Ala Thr
 115 120 125
 Leu His Val Thr Leu Lys Gly Thr Ala His Ala Lys Ala Ile Ser Leu
 130 135 140
 Phe Gly Gly Ile Gly Gly Ile Ala Phe Ile Val Gly Gln Met Gly Gly
 145 150 155 160
 Gly Trp Leu Val Ser Ala Asp Ile Ala Gly Leu Gly Trp Arg Asn Ala
 165 170 175
 Phe Phe Ile Asn Val Pro Ile Cys Leu Val Val Leu Ala Leu Ser Arg
 180 185 190
 Arg Tyr Val Pro Glu Thr Arg Arg Asp Thr Pro Ser Arg Ile Asp Trp
 195 200 205
 Thr Gly Thr Val Leu Leu Thr Ala Ile Leu Cys Cys Leu Leu Phe Pro
 210 215 220
 Met Ala Leu Gly Pro Gln Trp His Trp Ser Trp Pro Leu Lys Ala Ala
 225 230 235 240
 Leu Leu Ala Ile Val Pro Leu Val Cys Val Met Val Leu Asn Ala Arg
 245 250 255
 Lys Lys Glu Arg Glu Asn Ala His Pro Leu Ile Ala Pro Arg Leu Leu
 260 265 270
 Gln Leu Arg Ser Ile Arg Phe Gly Val Leu Ile Gly Ile Leu Phe Phe
 275 280 285
 Ser Val Trp Ser Gly Phe Met Phe Cys Met Ala Leu Thr Met Gln Ser
 290 295 300
 Gly Leu Gly Met Ala Pro Trp Gln Ser Gly Asn Ser Phe Ile Ala Leu
 305 310 315 320
 Gly Val Thr Tyr Phe Ile Ser Ala Trp Phe Ala Pro Arg Leu Ile Ala
 325 330 335
 Arg Tyr Ser Thr Ser Ala Ile Leu Leu Thr Gly Leu Ala Ile Gln Leu
 340 345 350
 Val Gly Leu Val Ala Leu Ile Ala Thr Phe Arg His Trp Gly Met Gln
 355 360 365
 Asn Thr Ala Leu Thr Leu Ala Pro Ala Thr Gly Leu Val Gly Tyr Gly
 370 375 380
 Gln Ala Leu Ile Val Asn Ser Phe Tyr Arg Ile Gly Met Arg Asp Ile
 385 390 395 400
 Gln Pro Asp Asp Ala Gly Ala Ala Ser Ala Ile Leu Ser Thr Leu Gln

				405					410					415			
Gln	Ala	Ala	Leu	Gly	Leu	Gly	Pro	Ala	Ile	Phe	Gly	Ala	Ile	Leu	Leu		
			420					425					430				
His	Gly	Leu	Gln	Asn	His	His	Gly	Asp	Tyr	Thr	Gln	Ala	Val	Asn	Val		
		435					440					445					
Phe	Leu	Met	Val	Glu	Thr	Ala	Met	Met	Val	Val	Leu	Ala	Leu	Ala	Thr		
	450					455					460						
Leu	Arg	Met	Arg	His	Arg	Leu	Cys	Leu	Pro	Val	Val	Lys	Ala	Cys	Pro		
465					470					475					480		
Ala	Thr	Lys															

<210> 9823

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 9823

Leu	Tyr	Cys	Ile	Ala	Glu	Ser	Met	Asp	Gly	Ser	Gly	Asn	Gly	Tyr	Arg		
1			5						10					15			
Trp	Asn	Asn	Tyr	Ala	Gln	Ser	Gly	Asp	Gln	Ala	Lys	Gln	Ile	Thr	Pro		
		20						25					30				
Lys	Leu	Asn	Met	Tyr	Ile	Ile	Leu	Asn	Cys	Leu	Phe	Trp	Leu	Ile	Ile		
	35						40					45					
Ser	Val	Thr	Met	Glu	Val	Thr	Gly	Thr	Leu	Leu	Leu	Pro	Glu	Thr	Arg		
	50					55					60						
Asn	Phe	Lys	Asn	Ile	Pro	Leu	Thr	Ile	His	Cys	Leu	Thr	Cys	Tyr	Val		
65				70					75						80		
Ile	Ser	Phe	Tyr	Ser	Leu	Ser	Met	Leu	Met	Gly	Tyr	Ile	Ser	Pro	Val		
				85					90					95			
Met	Ala	Tyr	Ser	Ile	Trp	Ala	Gly	Leu	Gly	Ile	Val	Leu	Ile	Thr	Val		
			100				105						110				
Met	Ser	Ser	Leu	Phe	Tyr	Arg	Leu	Lys	Ser	Ser	Ile	Leu	Glu	Lys	Ile		
		115					120					125					
Gly	Ile	Gly	Cys	Ile	Val	Thr	Gly	Leu	Ala	Ile	Ile	Ala	Phe				
	130					135						140					

<210> 9824

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 9824

Pro	Tyr	Arg	Pro	Ala	Cys	Ala	Gly	Asp	Arg	Ser	Gln	Gly	Ala	Leu	Met		
1				5					10					15			
Pro	Phe	Tyr	Leu	Phe	Leu	Arg	Arg	Leu	Arg	Arg	Ser	Pro	Ala	Ala	Phe		
		20						25					30				
Cys	Gly	Leu	Ile	Ala	Ile	Ala	Leu	Leu	Val	Leu	Ile	Ser	Leu	Phe	Ala		
		35					40					45					
Pro	Trp	Leu	Ala	Pro	Gln	Asp	Pro	Asn	Trp	Gln	Asp	Ala	Ala	Ala	Arg		
	50					55					60						
Leu	Gln	Pro	Pro	Asn	Ala	Gln	His	Trp	Leu	Gly	Thr	Asp	Ser	Tyr	Gly		
65				70					75						80		
Arg	Asp	Leu	Leu	Ser	Arg	Leu	Ile	Tyr	Gly	Thr	Arg	Pro	Ala	Leu	Gly		
				85					90					95			
Leu	Val	Ala	Leu	Val	Thr	Val	Ile	Thr	Leu	Pro	Ala	Gly	Leu	Leu	Val		
			100					105					110				
Gly	Ile	Leu	Ser	Gly	Tyr	Tyr	Gly	Gly	Trp	Met	Glu	Arg	Ile	Leu	Met		
		115					120					125					
Arg	Phe	Ser	Asp	Val	Val	Met	Ser	Met	Pro	Arg	Leu	Ile	Leu	Ala	Phe		
	130					135						140					

Ala Phe Val Ala Met Leu Gly Pro Gly Leu Val Asn Gly Ala Leu Ala
 145 150 155 160
 Leu Ala Leu Thr Thr Trp Pro Ala Tyr Ala Arg Gln Ala Arg Ser Glu
 165 170 175
 Ile Gln Arg Leu Arg His Ser Asp Tyr Leu Ala Ala Ala Glu Met Met
 180 185 190
 Gly Ile Arg Gly Pro Arg Leu Leu Val Gly His Ile Leu Pro Leu Cys
 195 200 205
 Leu Pro Ser Ala Ile Val Arg Leu Ala Leu Asp Leu Ala Gly Ile Ile
 210 215 220
 Leu Ala Ala Ala Gly Leu Gly Phe Leu Gly Leu Gly Ala Arg Pro Pro
 225 230 235 240
 Met Ala Glu Trp Gly Ala Met Ile Ala Asp Gly Met Gln Val Ile Phe
 245 250 255
 Asp Gln Trp Trp Ile Ala Ala Ile Pro Gly Gly Ala Ile Leu Phe Ala
 260 265 270
 Ser Leu Ala Phe Asn Leu Leu Gly Asp Gly Leu Arg Asp Val Leu Glu
 275 280 285
 Pro Gln His Asp
 290

<210> 9825

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 9825

Gln Thr Thr Glu Cys Ala Met Pro Leu Pro Asp Phe Lys Ser Ser Glu
 1 5 10 15
 Pro Tyr Thr Leu Gly Ile Glu Leu Glu Leu Gln Val Val Asn Pro Pro
 20 25 30
 Gly Tyr Asp Leu Ser Gln Asp Ser Ser Ala Leu Ile Ala Ala Val Lys
 35 40 45
 Asp Asp Ile Lys Gly Gly Glu Val Lys His Asp Ile Thr Glu Ser Met
 50 55 60
 Leu Glu Ile Ala Thr Gly Val Cys Gln Thr Ile Asp Gln Ala Ala Ala
 65 70 75 80
 Gln Phe Ser Val Met Gln Gln Ser Ile Leu Arg Ala Ala Ala Glu His
 85 90 95
 His Ile Gln Ile Cys Gly Gly Gly Thr His Pro Phe Gln Lys Trp Gln
 100 105 110
 Arg Gln Glu Val Cys Asp Asp Glu Arg Tyr Asn Val Thr Leu Glu Arg
 115 120 125
 Phe Gly Tyr Leu Ile Leu Gln Ala Thr Val Phe Gly Gln His Val His
 130 135 140
 Val Gly Cys Arg Thr Gly Asp Asp Ala Ile Tyr Leu Leu His Gly Leu
 145 150 155 160
 Ser Arg Phe Val Pro His Phe Ile Ala Leu Ala Ala Ala Ser Pro Tyr
 165 170 175
 Met Gln Gly Thr Asp Thr Lys Phe Ala Ser Ser Arg Leu Asn Ile Phe
 180 185 190
 Ser Gly Phe Pro Asp Asn Gly Gln Met Pro Trp Val Asn Ser Trp Gln
 195 200 205
 Glu Phe Glu Gly Leu Phe Arg Arg Leu Ser Ser Thr Ser Met Ile Asp
 210 215 220
 Ser Ile Lys Asp Leu His Trp Asp Ile Arg Pro Ser Pro His Phe Gly
 225 230 235 240
 Thr Val Glu Val Arg Val Met Asp Thr Pro Leu Thr Leu Gly His Ala
 245 250 255
 Ile Asn Ile Ala Gly Leu Ile Gln Ala Thr Ser His Trp Leu Leu Thr
 260 265 270

Ala Arg Pro Tyr Lys His Gln Glu Arg Asp Phe Leu Leu Tyr Arg Phe
 275 280 285
 Asn Arg Phe Gln Ala Cys Arg Tyr Gly Leu Glu Gly Ile Leu Thr Asp
 290 295 300
 Val His Thr Gly Glu His Lys Thr Val Ala Glu Asp Ile Ala Trp Leu
 305 310 315 320
 Leu Glu Gln Val Ala Pro Ser Ala Glu Lys Leu Gly Ala Thr Ser Ala
 325 330 335
 Ile Lys Glu Ile Ala Leu Leu Leu Lys Gln Gly Lys Ser Glu Ala Gln
 340 345 350
 Arg Met Arg Asp Phe Ile Ala Asp Gly Gly Ser Leu Ile Ser Leu Val
 355 360 365
 Gln Lys His Cys Glu Leu Trp Ala Thr Ser Pro
 370 375 380

<210> 9826

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 9826

Leu Thr Ile Asn Ile Thr Met Lys His Pro Leu Glu Ser Leu Leu Thr
 1 5 10 15
 Ala Gly Gly Ile Leu Leu Met Ala Leu Leu Ser Cys Leu Leu Leu Pro
 20 25 30
 Ala Pro Ser Leu Gly Leu Val Leu Ala Glu Lys Leu Val Gln Thr Phe
 35 40 45
 His Met Val Asp Leu Asn Gln Leu Tyr Thr Ile Leu Phe Cys Leu Trp
 50 55 60
 Phe Leu Val Leu Gly Ala Ile Glu Phe Phe Ile Leu Arg Phe Ile Trp
 65 70 75 80
 Arg Arg Trp Phe Ser Leu Ala Ser
 85

<210> 9827

<211> 727

<212> PRT

<213> Enterobacter cloacae

<400> 9827

Phe Tyr Gly Asp Ser Asn Gln Gly Arg Ser Ile Lys Met Phe Lys Asn
 1 5 10 15
 Asn Lys Ile Met Arg Leu Trp Leu Leu Ser Leu Ala Thr Thr Ser Val
 20 25 30
 Ala Ala Gln Ala Glu Thr Lys Glu Glu Thr Ile Thr Val Thr Gln Gly
 35 40 45
 Val Ser Glu Glu Pro Thr Ala Pro Val Lys Gly Ile Val Ala Thr Lys
 50 55 60
 Thr Leu Ser Ala Thr Lys Thr Ser Ala Glu Ile Val Lys Thr Pro Gln
 65 70 75 80
 Ser Val Ser Val Ile Thr Arg Asp Gln Met Asn Met Gln Asp Val Thr
 85 90 95
 Ser Val Ser Gln Ala Leu Arg Tyr Ser Ala Gly Val Phe Thr Glu Tyr
 100 105 110
 Arg Gly Ser Ser Asn Arg Asn Asp Glu Val Phe Val Arg Gly Phe Ser
 115 120 125
 Tyr Val Pro Lys Phe Leu Asp Gly Leu Ser Phe Gly Ala Thr Ala Ser
 130 135 140
 Ser Gln Thr Gly Thr Val Asp Pro Trp Leu Leu Glu Arg Val Glu Leu
 145 150 155 160
 Val Arg Gly Pro Ala Ser Val Leu Phe Gly Gln Val Asn Pro Gly Gly

				165					170					175	
Leu	Ile	Ser	Met	Thr	Ser	Lys	Arg	Pro	Thr	Ala	Glu	Ala	Ile	His	Asn
			180					185					190		
Val	Gln	Phe	Arg	Thr	Gly	Asn	Asn	Asp	Leu	Ala	Glu	Gly	Ala	Phe	Asp
		195					200					205			
Phe	Gly	Gly	Arg	Leu	Ser	Asp	Asp	Gly	Arg	Val	Leu	Tyr	Arg	Val	Asn
	210					215					220				
Gly	Ile	Ala	Arg	Thr	Gln	His	Asn	Gln	Val	Asp	Asp	Tyr	Lys	Glu	Thr
225				230						235				240	
Arg	Met	Ala	Ile	Ala	Pro	Ala	Ile	Thr	Trp	Tyr	Pro	Asn	Asp	Gln	Thr
				245					250					255	
Arg	Phe	Thr	Leu	Thr	Ser	Tyr	Gln	Lys	Asp	Pro	Asp	Ala	Gly	Tyr	
		260					265						270		
Arg	Asn	Phe	Leu	Pro	Ala	Tyr	Gly	Thr	Val	Lys	Ser	Ala	Asp	Gly	Lys
		275					280					285			
Tyr	Ile	Pro	Arg	Asp	Phe	Asn	Val	Ser	Asp	Pro	Asn	Tyr	Asn	Gln	Ser
	290					295					300				
Trp	Arg	Glu	Gln	Thr	Met	Ile	Gly	Tyr	Glu	Leu	Glu	His	Gln	Phe	Ala
305				310						315				320	
Asp	Asn	Leu	Thr	Phe	Arg	Gln	Asn	Ala	Arg	Tyr	Ala	Thr	Ile	Lys	Gln
				325					330					335	
Lys	Tyr	Arg	Tyr	Leu	Val	Tyr	Ala	Asn	Ser	Ala	Ala	Asn	Ser	Thr	Val
		340					345						350		
Leu	Thr	Arg	Arg	Ala	Gln	Arg	Glu	Ala	Arg	Thr	Thr	Asn	Glu	Phe	Gly
		355					360					365			
Leu	Asp	Asn	Gln	Leu	Glu	Tyr	Gln	Leu	Glu	Thr	Gly	Ser	Val	Ser	His
	370					375					380				
Thr	Leu	Leu	Gly	Gly	Phe	Asp	Tyr	Lys	Thr	Ser	Lys	Asp	Lys	Gln	Leu
385				390						395				400	
Leu	Ala	Arg	Gly	Ser	Gly	Ser	Gln	Tyr	Asp	Leu	Asp	Trp	Thr	Asn	Pro
			405						410					415	
Val	Tyr	Gly	Val	Asn	Val	Asp	Glu	Ser	Thr	Phe	Lys	Thr	Ala	Ser	Asp
		420					425						430		
Glu	Gln	Gln	Asn	Leu	Asp	Gln	Met	Gly	Leu	Tyr	Leu	Gln	Asp	Gln	Met
		435					440					445			
Ser	Trp	Asn	Asn	Trp	Glu	Trp	Leu	Val	Ser	Gly	Arg	Tyr	Asp	Trp	Ser
	450					455					460				
Glu	Val	Arg	Thr	Ser	Asp	Phe	Thr	Asp	Asn	Ser	Val	Thr	Gln	Gln	Asn
465				470						475				480	
Asp	Ser	Lys	Phe	Thr	Trp	Arg	Thr	Gly	Leu	Leu	Tyr	Ala	Phe	Asp	Ser
			485						490					495	
Gly	Leu	Ser	Pro	Tyr	Ile	Ser	Tyr	Ser	Thr	Ser	Phe	Glu	Pro	Asn	Leu
			500					505					510		
Gln	Thr	Asn	Arg	Ala	Pro	Gly	Val	Ala	Pro	Phe	Arg	Pro	Thr	Thr	Gly

Lys Asn Thr Phe Lys Val Pro Ser Val Asp Leu Tyr Asp Ala Met Leu
 660 665 670
 Arg Tyr Asp Leu Gly Glu Met Asn Arg Ser Leu Lys Gly Ala Ser Val
 675 680 685
 Gln Phe Asn Val Asn Asn Val Ala Asp Thr Lys Tyr Val Ala Ser Cys
 690 695 700
 Ala Ser Asp Thr Ala Cys Phe Tyr Gly Ile Gly Arg Thr Val Thr Ala
 705 710 715 720
 Thr Val Asn Tyr Ser Trp
 725

<210> 9828

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 9828

Lys Thr Cys Ser Arg Asn Cys Met Asn Cys Val Val Val Arg Ser Ala
 1 5 10 15
 Arg Cys Leu Cys Leu Thr Ser Leu Arg Pro Ser Val Met Gln Cys Ser
 20 25 30
 Tyr Arg Trp Leu Lys Pro Pro Trp Ser Leu Pro Pro Ala Ile Arg Pro
 35 40 45
 Val Pro Ser Ile Leu Lys Arg Trp Ala Leu Lys Pro Cys Gly Ala Gly
 50 55 60
 Leu Leu Arg Lys Ile Thr Met Asp Ser Lys Ser Leu Gln Glu His Ala
 65 70 75 80
 Arg Arg Val Ala Leu Glu Met Pro Phe Thr Glu His Cys Trp Pro Phe
 85 90 95
 Gly Pro Glu Tyr Asp Val Phe Lys Val Gly Gly Lys Ile Phe Met Leu
 100 105 110
 Met Ala Thr Ala His Gly Arg Ala His Val Ser Leu Lys Ser Asp Pro
 115 120 125
 Glu Lys Ser Leu Leu Asn Gln Gln Ile Tyr Arg Gly Val Glu Pro Gly
 130 135 140
 Tyr His Leu Asn Lys Lys His Trp Ile Ser Leu Tyr Gly Thr Asp Asp
 145 150 155 160
 Ile Thr Pro Glu Leu Val Thr Asp Leu Ile Thr Asp Ser Trp Asn Leu
 165 170 175
 Val Val Asp Lys Leu Pro Lys Lys Asp Gln Lys Trp Ile Arg Pro Ala
 180 185 190

<210> 9829

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 9829

Leu Phe Val Ser Asp Glu Gln Asn Lys Arg Ser Asn Arg Thr Tyr Leu
 1 5 10 15
 Phe Pro Leu Arg Ala Val Ile Cys Phe Pro Phe Thr Pro Ala Arg Gly
 20 25 30
 Arg Ile Ser Ser Pro Gly Val Val Met Asp Ile Ile Ser Val Ala Leu
 35 40 45
 Lys Arg His Ser Thr Lys Ala Phe Asp Pro Ala Lys Lys Leu Thr Ala
 50 55 60
 Glu Glu Ala Glu Lys Ile Lys Thr Leu Leu Gln Tyr Ser Pro Ser Ser
 65 70 75 80
 Thr Asn Ser Gln Pro Trp His Phe Ile Val Ala Ser Thr Glu Glu Gly


```
<210> 9831
<211> 262
<212> PRT
<213> Enterobacter cloacae
```

<400>	9831															
Arg	Leu	Leu	Phe	Ser	Cys	Leu	Leu	His	Leu	His	Thr	Val	Leu	Arg	Tyr	
1				5					10					15		
Pro	Gly	Arg	Leu	Glu	Ala	Gly	Ser	Glu	Gln	Asp	Asp	Gly	Val	Thr	Ala	
			20					25					30			
Pro	Glu	Gln	Thr	Gly	Phe	Pro	Ser	Cys	Val	Gln	His	Ile	Ser	His	Asp	
			35				40					45				
Ile	Thr	Gly	Ile	Lys	Leu	Glu	Pro	Ile	Val	Ala	Leu	Ser	Ser	Ser	Arg	
	50					55				60						
Ala	Val	Gly	Ala	Glu	Val	Leu	Ser	Val	Leu	Ser	Pro	His	Gln	Gln	Ser	
65					70					75					80	
Glu	Ser	Phe	Phe	Gln	Asp	Trp	Ser	Ala	Thr	Arg	Ala	Leu	Val	Leu	Leu	
				85					90					95		
Glu	Ala	Gln	Ile	Ala	Ala	Leu	Lys	Asn	Pro	Phe	Pro	Cys	Asp	Asn	Leu	
				100				105					110			
Phe	Ile	Asn	Leu	Pro	Ile	Thr	Val	Leu	Thr	Ile	Pro	Glu	Met	Phe	Gln	
		115					120					125				
Arg	Leu	Leu	Gln	Leu	Asn	Ser	Pro	Pro	Leu	Asn	Ile	Glu	Leu	Val	Glu	
	130					135					140					
Pro	Ala	Ser	Phe	Phe	Ser	Leu	Ser	Asp	Pro	Val	Arg	Gln	Arg	Val	Ser	
145					150					155					160	
Cys	Ala	Leu	Gln	Gln	Leu	Thr	Ala	Arg	Gly	His	Arg	Ile	Trp	Leu	Asp	
				165					170					175		
Asp	Ile	Asp	Glu	Ala	Ser	Gly	Gln	Ala	Phe	Leu	Ser	Cys	Arg	Leu	Pro	
			180					185					190			
Leu	Cys	Gly	Ile	Lys	Ile	Asp	Lys	Ile	Ala	Phe	Trp	Arg	Leu	Arg	Glu	
		195					200					205				
Thr	Pro	Ala	Leu	Thr	Gln	Leu	Val	Thr	Leu	Cys	Ser	Lys	Ile	Ala	Ala	
	210					215					220					
Asn	Val	Leu	Ile	Glu	Gly	Ile	Glu	Thr	Glu	Arg	Asp	Arg	Thr	Cys	Ala	

225 230 235 240
 Leu His Ala Gly Ala Arg Phe Gly Gln Gly Tyr Tyr Trp Pro Ser Trp
 245 250 255
 Arg Trp Gln Glu Asp
 260

<210> 9832
 <211> 99
 <212> PRT
 <213> Enterobacter cloacae

<400> 9832
 Leu Ile Ser Arg Lys Lys Val Met Lys Lys Thr Thr Ala Ile Leu Met
 1 5 10 15
 Gly Ala Ala Phe Leu Phe Thr Thr Asn Thr Phe Ala Ala Glu Leu Leu
 20 25 30
 Thr Lys Asn Glu Phe Glu Lys Val Glu Ser Gln Tyr Glu Lys Ile Gly
 35 40 45
 Thr Val Ser Thr Ala Asn Glu Val Ser Val Asp Asp Ala Lys Lys Glu
 50 55 60
 Leu Val Glu Lys Ala Asp Lys Glu Gly Ala Asp Val Leu Val Leu Thr
 65 70 75 80
 Ser Gly Asn Thr Asn Asn Lys Ile His Gly Thr Ala Asp Ile Tyr Lys
 85 90 95
 Lys Lys

<210> 9833
 <211> 662
 <212> PRT
 <213> Enterobacter cloacae

<400> 9833
 Gln Glu Ala Ala Met Gly Arg Pro Leu Lys Ser Val Phe Lys Lys Glu
 1 5 10 15
 His Arg Asp Asp Ile Ser Asn Arg Ser Ala Asn Pro Val Phe Ser Glu
 20 25 30
 Val Ala Glu Val Phe Leu Ser Arg Arg Arg Phe Leu Gln Met Gly Ala
 35 40 45
 Val Ala Gly Ala Ala Val Ser Phe Pro Tyr Leu Ile Thr Pro Glu Asn
 50 55 60
 Ala Ile Ala Ala Val Ser Lys Pro Ser Ala Leu Ala Lys Ala Val Ser
 65 70 75 80
 Leu Gly Phe Thr Ser Ile Asp Val Ser Thr Glu Asp Thr Val Arg Val
 85 90 95
 Pro Glu Gly Tyr Ile Ala Arg Pro Phe Tyr Arg Trp Gly Asp Pro Thr
 100 105 110
 Gly Ile Lys Asp Asn Met Pro Ala Phe Lys Pro Asp Ala Ser Asn Thr
 115 120 125
 Thr Asp Glu Gln Ala Val Gln Ala Gly Met His His Asp Gly Met Ala
 130 135 140
 Trp Phe Ser Leu Pro Gln Gly Ala Gln Asn Pro Glu His Gly Leu Leu
 145 150 155 160
 Ala Leu Asn His Glu Tyr Ile Asp Asn Gly Met Leu Phe Thr Asp Gly
 165 170 175
 Thr Ala Asn Trp Ser Leu Asp Lys Ala Arg Lys Gly Gln Asn Ala Met
 180 185 190
 Gly Val Ser Val Val Glu Val Lys Lys Thr Gly Ser Gly Trp Glu Val
 195 200 205
 Val Arg Pro Ser Ser Phe Ala Arg Arg Ile Thr Val Asn Thr Pro Met
 210 215 220

Gln Leu Thr Gly Pro Ala Arg His Gln Asp Leu Met Lys Thr Ala Ala
 225 230 235 240
 Asp Pro Gln Gly Glu Arg Val Leu Gly Thr Met Gln Asn Cys Ala Asn
 245 250 255
 Gly His Thr Pro Trp Gly Thr Tyr Leu Thr Cys Glu Glu Asn Trp Ser
 260 265 270
 Asp Ile Phe Val Lys Lys Ala Asp Leu Asn Pro Leu Glu Lys Arg Tyr
 275 280 285
 Gly Ile Ser Asp Ser Asp Glu Ser Tyr Arg Trp Asn Glu Val Asp Glu
 290 295 300
 Arg Phe Ser Val Asp Lys Thr Pro Asn Glu Pro Asn Arg Phe Gly Trp
 305 310 315 320
 Val Val Glu Ile Asp Pro Tyr Asn Pro Thr Ser Thr Pro Arg Lys His
 325 330 335
 Thr Ala Leu Gly Arg Phe Lys His Glu Gly Ala Ala Val Thr Leu Ala
 340 345 350
 Ala Asp Asn Arg Val Val Val Tyr Met Gly Asp Asp Gln Lys Phe Glu
 355 360 365
 Tyr Ile Tyr Lys Phe Val Ser Asp Lys Lys Tyr Asp Pro Ala Asn Arg
 370 375 380
 Glu Ala Asn Met Gln Leu Leu Thr Ser Gly Thr Leu Tyr Val Ala Arg
 385 390 395 400
 Phe Asn Glu Asp Gly Ser Gly Asp Trp Leu Pro Leu Ile Phe Gly Gln
 405 410 415
 Asn Gly Leu Asp Lys Ser Asn Gly Phe Ala Ser Gln Gly Asp Leu Leu
 420 425 430
 Ile Lys Thr Arg Leu Ala Ala Asp Val Val Gly Ala Thr Lys Met Asp
 435 440 445
 Arg Pro Glu Trp Ile Ala Val Asp Pro His Ala Ser Gly Ser Val Tyr
 450 455 460
 Cys Thr Leu Thr Asn Asn Ser Asp Arg Gly Lys Glu Gly Lys Ala Pro
 465 470 475 480
 Val Asp Ala Ala Asn Pro Arg Ala Asn Asn Val Phe Gly His Ile Met
 485 490 495
 His Trp His Glu Glu Gly Ala Asp Pro Ala Ala Ala Arg Phe Lys Trp
 500 505 510
 Asp Ile Leu Val Met Ala Gly Arg Thr Asp Gly Asp Asp Pro Lys Ala
 515 520 525
 Lys Gly Ser Met Gln Gly Ala Ala Phe Gly Ser Pro Asp Gly Leu Ser
 530 535 540
 Phe Asp His Gln Gly Val Leu Trp Ile Gln Thr Asp Val Ser Ser Ser
 545 550 555 560
 Thr Ile Asn Lys Lys Ala Tyr Glu Gly Met Gly Asn Asn Gln Met Val
 565 570 575
 Ala Thr Ile Pro Gly Thr Asn Glu Tyr Arg Arg Phe Leu Thr Gly Pro
 580 585 590
 Arg Gly Cys Glu Ile Thr Gly Ile Ala Phe Thr Pro Asp Asn Arg Thr
 595 600 605
 Leu Phe Ile Asn Ile Gln His Pro Gly Glu Gly Gly Asp Asp Ile Thr
 610 615 620
 Asp Pro Ala Asn Pro Arg Ala Val Ser Asn Trp Pro Asp Ala Ser Pro
 625 630 635 640
 Asn Gly Arg Pro Arg Ser Ser Thr Val Val Ile Thr Lys Ala Asp Gly
 645 650 655
 Gly Ile Ile Gly Ser
 660

<210> 9834

<211> 464

<212> PRT

<213> Enterobacter cloacae

$\langle 211 \rangle$ 432

<213> Ent

Ser 1	Ile	Thr	Phe	Tyr 5	Leu	Asn	Cys	Phe	Val 10	Ile	Asp	Tyr	Phe	Phe	Arg
Val	Arg	Leu	Ile	Met 20	Val	Ser	Thr	Glu 25	Ser	Ser	Glu	Lys	Ala 30	Ile	Thr
Gln	His	Arg 35	Leu	Leu	Val	Pro	Arg 40	Leu	Ser	Leu	Met	Met 45	Phe	Leu	Gln
Phe	Phe 50	Ile	Trp	Gly	Ser	Trp 55	Ser	Val	Thr	Leu	Gly 60	Leu	Val	Met	Thr
Arg 65	His	Asn	Met	Ser 70	Leu	Leu	Ile	Gly	Asp 75	Ala	Phe	Ser	Ala	Gly	Pro 80
Ile	Ala	Ser	Ile	Leu 85	Ser	Pro	Phe	Val	Leu 90	Gly	Met	Leu	Val	Asp 95	Arg
Phe	Phe	Ala	Ser	Gln 100	Lys	Val	Met	Ala 105	Val	Met	His	Leu	Ala 110	Gly	Ala
Val	Ile	Leu 115	Trp	Phe	Val	Pro	Gly 120	Ala	Leu	Ile	Ala	Glu 125	Asn	Gly	Ala
Leu 130	Leu	Ile	Gly	Leu	Leu	Phe 135	Tyr	Thr	Thr	Leu	Cys 140	Met	Pro	Thr	
Leu 145	Ala	Leu	Thr	Asn 150	Asn	Ile	Ala	Phe	His	Ser 155	Leu	Ala	Asn	Val	Asp 160
Lys	Thr	Phe	Pro	Val 165	Val	Arg	Val	Phe	Gly 170	Thr	Ile	Gly	Trp 175	Ile	Ala
Ala	Gly	Ile	Phe 180	Ile	Gly	Val	Thr	Gly 185	Val	Ala	Ser	Ser	Val 190	Thr	Ile
Phe	Gln	Val 195	Ala	Ala	Val	Ser	Ser 200	Val	Leu	Leu	Ala	Val 205	Tyr	Ser	Leu
Thr 210	Leu	Pro	His	Thr	Pro	Ala 215	Pro	Ala	Lys	Gly 220	Leu	Pro	Val	Lys	Val
Arg 225	Asp	Leu	Phe	Cys 230	Ala	Asp	Ala	Phe	Ala	Leu 235	Leu	Lys	Thr	Arg	His 240
Phe	Phe	Val	Phe 245	Ser	Val	Cys	Ala	Met	Leu 250	Ile	Ser	Val	Pro	Leu	Gly 255
Thr	Tyr	Tyr 260	Ala	Tyr	Thr	Ala	Ser	Tyr 265	Leu	Ala	Asp	Ala	Gly 270	Ile	Ala
Asp	Val	Ser 275	Thr	Ala	Met	Ser	Phe 280	Gly	Gln	Met	Ser	Glu 285	Ile	Val	Phe
Met	Leu 290	Val	Ile	Pro	Leu	Leu 295	Phe	Arg	Arg	Leu	Gly 300	Val	Lys	Val	Met
Leu 305	Leu	Ile	Gly	Met	Leu 310	Ala	Trp	Phe	Val	Arg 315	Tyr	Ala	Met	Phe	Ala 320
Leu	Gly	Val	Ser	Glu 325	Glu	Gly	Arg	Ile	Leu 330	Leu	Tyr	Leu	Gly 335	Ile	Leu
Leu	His	Gly 340	Val	Cys	Tyr	Asp	Phe	Phe 345	Phe	Val	Val	Gly	Phe 350	Ile	Tyr
Thr	Asp	Arg 355	Val	Ala	Gly	Glu	Lys 360	Val	Lys	Gly	Gln	Ala 365	Gln	Ser	Met
Ile 370	Val	Met	Phe	Thr	Tyr	Gly 375	Ile	Gly	Met	Leu 380	Leu	Gly	Ser	Gln	Ile
Ser 385	Gly	Ala	Leu	Tyr	Asn 390	Arg	Leu	Val	Ala	Gly 395	Gln	Thr	Val	Pro	Gln 400
Ala	Trp	Val	Thr	Phe 405	Trp	Trp	Ile	Pro	Ala 410	Val	Ala	Ala	Ala 415	Ala	Ile
Ala	Leu	Ile	Phe 420	Leu	Leu	Thr	Phe	Lys 425	Tyr	Asp	Asp	Asp	Lys 430	Ala	

<210> 9836
 <211> 347
 <212> PRT
 <213> Enterobacter cloacae

<400> 9836

Arg	Ser	Gly	Gly	Met	Arg	Thr	Met	Lys	Gly	Pro	Gly	Ile	Phe	Leu
1			5					10					15	
Ser	Gln	Phe	Ile	Gly	Ala	Glu	Ala	Pro	Phe	Asn	Ser	Leu	Asp	Gly
			20					25					30	
Ala	Glu	Trp	Ala	Ala	Gly	Lys	Gly	Tyr	Lys	Ala	Val	Gln	Ile	Pro
			35				40					45		
Asn	His	Pro	His	Ile	Phe	Asp	Val	Glu	Lys	Ala	Ala	Glu	Ser	Gln
			50			55					60			
Tyr	Cys	Asp	Asp	Ile	Thr	Ala	Arg	Leu	Ala	Ala	His	Gly	Leu	Val
65					70					75				80
Ser	Glu	Leu	Ser	Thr	His	Leu	Glu	Gly	Gln	Leu	Val	Ala	Val	Asn
				85					90					95
Val	Tyr	Ser	Glu	Ala	Phe	Asp	His	Phe	Ala	Pro	Ala	Ala	Val	Arg
			100					105					110	
Asn	Glu	Ala	Ala	Arg	Arg	Ala	Trp	Ala	Thr	Glu	Lys	Leu	Lys	Gln
			115			120						125		
Ala	Val	Ala	Ser	Ala	Arg	Leu	Gly	Leu	Lys	Ala	His	Ala	Thr	Phe
			130			135					140			
Gly	Ser	Leu	Ala	Trp	Pro	Phe	Phe	Tyr	Pro	Trp	Pro	Pro	His	Asn
145					150					155				160
Gln	Arg	Phe	Gln	Glu	Ala	Phe	Glu	Glu	Leu	Ala	Thr	Arg	Trp	Arg
				165					170					175
Ile	Leu	Asp	Thr	Phe	Asp	Glu	Gln	Gly	Val	Asp	Val	Cys	Phe	Glu
			180					185					190	
His	Pro	Gly	Glu	Asp	Leu	His	Asp	Gly	Val	Thr	Phe	Glu	Arg	Phe
			195				200					205		
Ala	Leu	Val	Asp	Asn	His	Pro	Arg	Cys	Asn	Ile	Leu	Tyr	Asp	Pro
			210			215					220			
His	Met	Leu	Leu	Gln	Gln	Met	Asp	Tyr	Leu	Ala	Phe	Ile	Asp	Ile
225					230					235				240
His	Ala	Arg	Ile	Lys	Ala	Phe	His	Val	Lys	Asp	Ala	Glu	Phe	Arg
				245					250					255
Ser	Gly	Arg	Ser	Gly	Val	Tyr	Gly	Gly	Tyr	Gln	Pro	Trp	Ile	Asn
			260					265					270	
Ala	Gly	Arg	Phe	Arg	Ser	Pro	Gly	Asp	Gly	Gln	Ile	Asp	Phe	Lys
			275				280					285		
Ile	Phe	Ser	Lys	Leu	Thr	Gln	Tyr	Asp	Tyr	Asp	Gly	Trp	Ala	Val
			290			295					300			
Glu	Trp	Glu	Cys	Cys	Leu	Lys	Asp	Gly	Asp	Thr	Gly	Ala	Ser	Glu
305					310					315				320
Ser	Glu	Phe	Ile	Arg	Arg	His	Ile	Ile	Pro	Val	Ser	Gly	Arg	Ala
				325					330					335
Asp	Asp	Phe	Ala	Ala	Gly	Gly	Cys	His	Asp					
			340					345						

<210> 9837
 <211> 140
 <212> PRT
 <213> Enterobacter cloacae

<400> 9837

Tyr	His	Ala	Thr	Ile	Ser	Arg	Val	Val	Gly	Ile	Met	Phe	Lys	Arg
1				5					10					15
Ala	Glu	Gly	Glu	Ser	Ser	Met	Thr	Ile	Ser	Ala	Gln	Val	Ile	Asp
			20					25					30	

<210> 9838

<212> PRT

<213> Enterobacter cloacae

Arg 1	Lys	Asn	Thr	Met 5	Thr	Lys	Lys	Asn	Phe 10	Ser	Gln	Asn	Met	Pro 15	Pro
Ala	Gly	Gly	Gln	Ala 20	Tyr	Gln	Gln	Thr 25	Val	Glu	Gln	Val	Leu 30	Ala	Gln
Ala	Gln	Ser 35	Gln	Ala	Asn	Gly	Leu 40	Asp	Arg	Ala	Glu	Ala 45	Gln	Ala	Arg
Leu	Gln	Lys 50	His	Gly	Pro	Asn 55	Ala	Leu	Pro	Glu	Lys 60	Lys	Gly	Lys	Pro
Gly 65	Trp	Leu	Arg	Phe 70	Leu	Ala	His	Phe	Asn	Asp 75	Val	Leu	Ile	Tyr	Val 80
Leu	Leu	Ala	Ala 85	Ala	Val	Leu	Thr	Ala	Val	Met 90	Gly	His	Trp	Val	Asp
Thr	Leu	Val	Ile 100	Leu	Gly	Val	Ala	Val 105	Ile	Asn	Ala	Leu	Ile 110	Gly	His
Ile	Gln	Glu 115	Ser	Asn	Ala	Glu	Lys 120	Ser	Leu	Lys	Ser	Ile 125	Arg	Asn	Met
Leu	Ser	Ser 130	Glu	Ala	Arg	Val 135	Ile	Arg	Asn	Gly	Asn 140	His	Glu	Thr	Ile
Pro 145	Thr	Thr	Glu	Ile 150	Val	Pro	Gly	Asp	Ile	Ile 155	Val	Leu	Arg	Ala	Gly 160
Asp	Arg	Ile	Pro 165	Ala	Asp	Met	Arg	Leu	Ile	Glu 170	Ala	His	Asn	Leu	Arg
Val	Glu	Glu	Ala 180	Ile	Leu	Thr	Gly	Glu 185	Ser	Thr	Val	Val	Asp 190	Lys	His
Thr	Asn	Pro 195	Leu	Ser	Gly	Glu	Leu 200	Pro	Leu	Gly	Asp	Arg 205	Thr	Asn	Leu
Val 210	Phe	Ser	Gly	Thr	Thr	Val 215	Ser	Ala	Gly	Gly	Gly 220	Val	Gly	Val	Val
Ile 225	Ala	Thr	Gly	Gln	Glu	Thr 230	Glu	Leu	Gly	His 235	Ile	Asn	Gln	Met	Met 240
Ala	Gly	Ile	Glu 245	Lys	His	Arg	Thr	Pro	Leu	Leu 250	Val	Gln	Met	Asp 255	Lys
Leu	Gly	Lys 260	Ala	Ile	Phe	Ala	Ile	Ile 265	Leu	Ala	Met	Met	Ala 270	Ala	Leu
Phe	Val	Phe 275	Ser	Leu	Val	Phe	Arg 280	Glu	Ile	Pro	Met	Gly 285	Glu	Leu	Leu
Leu	Ser 290	Leu	Ile	Ser	Leu	Ala 295	Val	Ala	Ser	Val	Pro 300	Glu	Gly	Leu	Pro
Ala 305	Ile	Ile	Ser	Ile	Ile	Leu 310	Ser	Leu	Gly	Val 315	Gln	Ala	Met	Ala	Arg 320

				805					810					815			
Cys	Ala	Gln	Trp	Val	Tyr	Met	Ile	Asn	Cys	Arg	Asn	Thr	Glu	Gly	Phe		
			820					825					830				
Ser	Leu	Asn	Arg	Gly	Leu	Leu	Ala	Asn	Lys	Gly	Ile	Trp	Leu	Val	Thr		
		835					840					845					
Gly	Val	Leu	Phe	Leu	Leu	Gln	Ala	Ala	Ile	Ile	Tyr	Leu	Pro	Phe	Met		
	850					855					860						
Gln	Met	Leu	Phe	Gly	Thr	Glu	Ala	Leu	Pro	Leu	Arg	Tyr	Trp	Phe	Val		
865					870					875					880		
Thr	Leu	Ala	Val	Ala	Gly	Val	Met	Phe	Phe	Val	Val	Glu	Ile	Glu	Lys		
			885						890					895			
Arg	Leu	Thr	Arg	Arg	Phe	Arg	Lys	Ala	Ala								
			900					905									

<210> 9839

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 9839

Gly	Lys	Thr	Thr	Pro	Arg	Tyr	Phe	Leu	Met	Lys	Leu	Pro	Leu	Leu	Phe		
1				5				10						15			
Ala	Leu	Leu	Ala	Cys	Thr	Leu	Gln	Pro	Ala	Phe	Ala	Ala	Val	Ile	Pro		
			20					25					30				
Val	Arg	Val	Ala	Thr	Val	Glu	Gln	Thr	Ala	His	Ala	Ala	Glu	Arg	Gln		
	35					40					45						
Ile	Pro	Gly	Arg	Ile	Glu	Ala	Ile	His	Thr	Val	Glu	Leu	Arg	Ala	Arg		
50					55					60							
Thr	Glu	Gly	Val	Ile	Thr	Arg	Ile	His	Phe	Arg	Asp	Gly	Gln	Tyr	Val		
65				70					75					80			
Lys	Lys	Gly	Asp	Val	Leu	Phe	Glu	Leu	Asp	Asp	Ala	Glu	Pro	Arg	Ala		
			85					90						95			
Ala	Leu	Arg	Leu	Ala	Gln	Ala	Glu	Val	Arg	Ser	Ala	Glu	Ala	Thr	Leu		
			100				105						110				
Arg	Gln	Ala	Gln	Gln	Gln	Leu	Ser	Arg	Phe	Glu	Ser	Leu	Gly	Ser	Ser		
	115					120						125					
Asn	Ala	Ile	Ser	Arg	His	Asp	Val	Asp	Asn	Ala	Arg	Met	Gln	Arg	Asp		
130					135						140						
Val	Ala	Ser	Ala	Ala	Leu	Glu	Gln	Ala	Lys	Ala	Arg	Leu	Asp	Thr	Arg		
145				150					155					160			
Ser	Val	Thr	Leu	Asp	Tyr	Thr	Arg	Ile	Ile	Ser	Pro	Ile	Asp	Gly	Arg		
			165					170					175				
Val	Gly	His	Ser	Asn	Phe	His	Val	Gly	Ser	Leu	Val	Asn	Pro	Ala	Ser		
			180				185					190					
Gly	Val	Leu	Val	Glu	Val	Val	Gln	Leu	Asp	Pro	Ile	Arg	Ile	Ala	Phe		
	195					200					205						
Ala	Leu	Glu	Glu	Gly	Ala	Phe	Ala	Thr	Lys	Ala	Gly	Gln	His	Ala	Asp		
	210				215						220						
Ile	Ser	Ala	Met	Lys	Gln	Ala	Trp	Gln	Ala	Leu	Ile	Asp	Ser	Asn	Gly		
225				230						235				240			
Gln	Arg	Ile	Ser	Gly	Glu	Leu	Thr	Ser	Val	Asp	Asn	Arg	Ile	Asp	Pro		
			245					250					255				
Arg	Thr	Ala	Ser	Val	Met	Leu	Arg	Ala	Glu	Phe	Ala	Asn	Pro	Arg	His		
			260				265					270					
Gln	Leu	Leu	Pro	Gly	Gly	Asn	Val	Asn	Val	Tyr	Leu	Arg	Pro	Ala	Ser		
	275					280					285						
Glu	Leu	Pro	Val	Leu	Thr	Leu	Pro	Ala	Ala	Ala	Val	Gln	Gln	Asn	Gly		
	290				295						300						
Asp	Gly	Phe	Phe	Ala	Trp	Val	Ile	Asn	Ala	Glu	Asp	Lys	Ala	Glu	Met		
305				310						315				320			
Arg	Pro	Leu	Lys	Val	Ala	Gly	Gln	Ile	Gly	Gln	Gln	Phe	Gln	Ile	Ala		

5380

325 330 335
 Ser Gly Val Lys Pro Gly Glu Arg Ala Ile Thr Asp Gly Ala Gln Arg
 340 345 350
 Val Gln Pro Gly Val Ala Val Gln Ile Leu Asn
 355 360

<210> 9840

<211> 1055

<212> PRT

<213> Enterobacter cloacae

<400> 9840

Gly Ala Ile Met Leu Thr Phe Phe Ile Lys Arg Pro Arg Phe Ala Met
 1 5 10 15
 Val Ile Ala Leu Val Ile Thr Leu Leu Gly Ala Ile Ala Leu Arg Ile
 20 25 30
 Ile Pro Val Glu Gln Tyr Pro Gln Ile Thr Pro Pro Val Asn Val
 35 40 45
 Ser Ala Ser Trp Pro Gly Ala Ser Ser Ala Asp Val Ala Glu Ala Ile
 50 55 60
 Ala Thr Pro Leu Glu Thr Gln Leu Asn Gly Val Asp His Met Leu Tyr
 65 70 75 80
 Met Glu Ser Thr Ser Ser Asp Glu Gly Thr Tyr Ser Leu Asn Ile Thr
 85 90 95
 Phe Ala Ala Gly Thr Asp Pro Asp Leu Ala Ala Ile Asp Val Gln Asn
 100 105 110
 Arg Val Ala Gln Ala Val Ala Gln Leu Pro Thr Glu Ala Gln Gln Asn
 115 120 125
 Gly Val Gln Val Arg Lys Arg Ala Thr Asn Leu Met Met Gly Val Ser
 130 135 140
 Leu Tyr Ser Pro Asn Asn Thr His Thr Pro Leu Phe Val Ser Asn Tyr
 145 150 155 160
 Ala Ser Thr Gln Val Arg Glu Ala Leu Ser Arg Leu Pro Gly Val Gly
 165 170 175
 Gln Val Gln Met Phe Gly Ala Arg Asp Tyr Ser Met Arg Ile Trp Leu
 180 185 190
 Arg Pro Asp Arg Met Asn Ala Leu Asn Val Thr Ser Asp Asp Val Ala
 195 200 205
 Gln Ala Leu Arg Glu Gln Asn Val Gln Gly Ala Ala Gly Gln Val Gly
 210 215 220
 Thr Pro Pro Val Phe Asn Gly Gln Gln Gln Thr Leu Thr Ile Asn Gly
 225 230 235 240
 Leu Gly Arg Leu Asn Gln Ala Asp Asp Phe Ala Asn Ile Ile Ile Arg
 245 250 255
 Ala Gly Glu Met Gly Gln Leu Val Arg Leu Lys Asp Val Ala Thr Ile
 260 265 270
 Glu Leu Gly Ser Leu Ser Tyr Ser Ser Gly Ala Gln Leu Asn Gly His
 275 280 285
 Asp Ser Ala Tyr Leu Gly Ile Tyr Pro Thr Pro Ser Ala Asn Ala Leu
 290 295 300
 Arg Val Ala Asp Ala Val Arg Ala Glu Leu Glu Arg Leu Ser Thr Arg
 305 310 315 320
 Phe Pro Asp Asp Leu Val Tyr Glu Val Lys Phe Asp Thr Thr Ser Phe
 325 330 335
 Val Ala Ala Thr Ile Lys Glu Ile Gly Val Ser Leu Ala Leu Thr Met
 340 345 350
 Leu Ala Val Val Val Val Ser Leu Phe Leu Gln Ser Trp Arg Ala
 355 360 365
 Thr Leu Ile Val Ala Leu Ala Ile Pro Val Ser Leu Val Gly Thr Phe
 370 375 380
 Ala Val Leu Tyr Thr Leu Gly Tyr Ser Ala Asn Thr Leu Ser Leu Phe

0
 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37
 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99

385					390					395				400
Ala	Ile	Ile	Leu	Ala	Leu	Thr	Met	Val	Val	Asp	Asp	Ala	Ile	Val
				405					410					415
Val	Glu	Ser	Val	Glu	Thr	Leu	Met	Ala	Glu	Gly	Gln	Ser	Arg	Thr
			420					425					430	Ala
Ala	Thr	Ala	Leu	Ala	Leu	Arg	Gln	Ile	Ala	Gly	Pro	Val	Ile	Ala
		435					440					445		Thr
Thr	Leu	Val	Leu	Leu	Ala	Val	Phe	Val	Pro	Val	Ala	Leu	Leu	Pro
	450					455					460			Gly
Ile	Val	Gly	Glu	Leu	Tyr	Arg	Gln	Phe	Ala	Val	Thr	Leu	Ser	Thr
465					470					475				480
Val	Thr	Leu	Ser	Ser	Leu	Val	Ala	Leu	Thr	Leu	Thr	Pro	Ala	Leu
				485					490					495
Ala	Leu	Leu	Leu	Arg	Pro	Arg	Pro	Ala	Gln	Pro	Ala	Ala	Val	Phe
			500					505					510	Arg
Gly	Phe	Asn	Arg	Gly	Leu	Asp	Ala	Thr	Arg	Thr	Leu	Tyr	Thr	Arg
	515						520					525		Ile
Val	Ser	Val	Phe	Asn	Leu	Arg	Pro	Trp	Leu	Ala	Leu	Leu	Ala	Thr
	530					535					540			Ala
Gly	Ala	Ala	Ala	Val	Val	Phe	Ser	Phe	Met	Ser	Met	Pro	Lys	Gly
545					550				555					560
Phe	Leu	Pro	Gln	Glu	Asp	Gln	Gly	Tyr	Phe	Phe	Ala	Ser	Val	Gln
				565					570					575
Pro	Glu	Ala	Ala	Ser	Leu	Glu	Arg	Thr	Glu	Ala	Val	Met	Thr	Ala
			580					585					590	
Arg	Glu	Leu	Ile	Ala	Lys	Asn	Pro	Ala	Val	Glu	Asp	Val	Ile	Gln
		595					600					605		Val
Ser	Gly	Phe	Asn	Ile	Leu	Asn	Gly	Thr	Ser	Ala	Ser	Asn	Gly	Gly
	610					615					620			Phe
Ile	Ser	Ile	Met	Leu	Lys	Asp	Trp	Ser	Glu	Arg	Pro	Pro	Leu	Asp
625					630					635				640
Val	Met	Gly	Thr	Leu	Gln	Arg	Gln	Leu	Leu	Ala	Leu	Pro	Glu	Ala
				645					650					655
Ile	Met	Thr	Phe	Ala	Pro	Pro	Thr	Leu	Pro	Gly	Leu	Gly	Asn	Ala
			660					665					670	Ser
Gly	Phe	Asp	Leu	Arg	Ile	Gln	Ala	Gln	Ala	Gly	Gln	Ser	Pro	Ala
	675						680					685		Glu
Leu	Glu	Arg	Val	Thr	Arg	Glu	Val	Leu	Ala	Lys	Ala	Asn	Gln	His
	690					695					700			Pro
Gln	Leu	Ser	Arg	Val	Phe	Thr	Thr	Trp	Ser	Ser	Asn	Val	Pro	Gln
705					710					715				720
Thr	Leu	Thr	Val	Asp	Arg	Glu	Arg	Ala	Ala	Arg	Leu	Asp	Val	Pro
			725						730					735
Ser	Arg	Ile	Phe	Ser	Ser	Leu	Gln	Thr	Ala	Phe	Gly	Gly	Thr	Arg
		740						745					750	Ala
Gly	Asp	Phe	Ser	Val	Asn	Asn	Arg	Val	Tyr	His	Val	Val	Met	Gln
	755						760				765			Asn
Glu	Met	Gln	Trp	Arg	Glu	Arg	Ala	Glu	Gln	Ile	Ser	Glu	Leu	Phe
	770					775					780			Val
Arg	Ser	Asn	Ser	Gly	Glu	Arg	Val	Arg	Leu	Ser	Asn	Leu	Val	Thr
785					790					795				800
Thr	Pro	Thr	Val	Gly	Ala	Pro	Phe	Ile	Gln	Gln	Tyr	Asn	Gln	Phe
			805						810					815
Ser	Val	Ser	Val	Ser	Gly	Ser	Ala	Ala	Glu	Gly	Val	Ser	Ser	Thr
			820					825					830	
Ala	Met	Ala	Ala	Met	Gly	Glu	Ile	Leu	Ala	Glu	Asn	Leu	Pro	Ala
	835							840				845		Gly
Tyr	Asp	Tyr	Ala	Trp	Ser	Gly	Met	Ser	Tyr	Gln	Glu	Gln	Gln	Thr
	850					855					860			Gly
Asn	Gln	Ala	Ile	Trp	Ile	Val	Leu	Ala	Ala	Val	Val	Met	Ala	Trp
865					870					875				880

Phe Leu Val Ala Gln Tyr Glu Ser Trp Thr Leu Pro Ala Ser Val Met
 885 890 895
 Leu Ser Val Leu Phe Ala Ile Gly Gly Ala Leu Val Trp Leu Trp Leu
 900 905 910
 Ala Gly Tyr Ala Asn Asp Val Tyr Val Gln Ile Gly Leu Val Leu Leu
 915 920 925
 Ile Ala Leu Ala Ala Lys Asn Ala Ile Leu Ile Val Glu Phe Ala Arg
 930 935 940
 Ala Arg Arg Met Asp Gly Met Ala Ile Val Asp Ala Ala Arg Glu Gly
 945 950 955 960
 Ala Ser Arg Arg Phe Arg Ala Val Met Met Thr Ala Val Ser Phe Ile
 965 970 975
 Ile Gly Val Leu Pro Met Met Leu Ala Thr Gly Ala Gly Ala Gln Ser
 980 985 990
 Arg Arg Ile Ile Gly Thr Thr Val Phe Ser Gly Met Leu Val Ala Thr
 995 1000 1005
 Val Val Gly Ile Val Phe Ile Pro Ala Leu Phe Val Leu Phe Gln Arg
 1010 1015 1020
 Leu Arg Glu Trp Gly His Gly Leu Thr Asp Ser Ser Pro Thr Ala His
 1025 1030 1035 1040
 Ser Ala Ser Ala Pro Glu Lys Ser Ala Ser Arg His Arg Arg
 1045 1050 1055

<210> 9841

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 9841

Gly Arg Val Val Ser Ser Gln Cys Asp Val Ala Trp Ile Ser Gln Ala
 1 5 10 15
 Ile Leu Ile Ala Leu Leu Ser Val Ser Gly Leu Ser Val Asp Arg Thr
 20 25 30
 Cys Met Val Leu Met Cys Gly Leu Gly Arg Met Ser Gln Cys Arg Ser
 35 40 45
 Leu Met Leu Ser Ile Leu Ser Asp Arg Gln Ala Asp Arg Leu Met Glu
 50 55 60
 Trp Asp Ile Arg Asn Gly Val Ile Gln Arg Tyr Gly Arg Arg His Gly
 65 70 75 80
 Ile Ala Val Pro Val Ser Asp Val Val Val Pro Leu Leu Ala Ala Gly
 85 90 95
 Ser Glu Gly Pro Gly
 100

<210> 9842

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 9842

His Ser Ser Asp Ala Thr Leu Phe Ser Val Leu Ile Thr Ser Ser Asn
 1 5 10 15
 Lys Phe Met Thr Thr Ala Asp Phe Lys Arg Pro Lys Leu Glu Leu Pro
 20 25 30
 Asn Gly Ala Asp Lys Leu Leu Leu His Ser Cys Cys Ala Pro Cys Ser
 35 40 45
 Gly Glu Val Met Glu Ala Ile Gln Ala Ser Gly Ile Asp Tyr Thr Ile
 50 55 60
 Phe Phe Tyr Asn Pro Asn Ile His Pro Gln Lys Glu Tyr Leu Ile Arg
 65 70 75 80
 Lys Asp Glu Asn Ile Arg Phe Ala Glu Gln His Gly Val Pro Phe Ile

```
<210> 9843
<211> 268
<212> PRT
<213> Enterobacter cloacae.
```

<400> 9843																
Ile	Lys	Leu	Lys	Arg	Thr	Gly	Met	Met	Met	His	Ser	Ser	Ala	Cys	Asp	
1			5						10					15		
Cys	Glu	Ala	Ser	Leu	Cys	Glu	Thr	Leu	Arg	Gly	Phe	Ser	Ala	Gln	His	
			20					25					30			
Pro	Asp	Ser	Val	Ile	Tyr	Gln	Thr	Ser	Leu	Met	Ser	Ala	Leu	Leu	Ser	
		35					40					45				
Gly	Val	Tyr	Glu	Gly	Glu	Thr	Thr	Ile	Ala	Asp	Leu	Leu	Ala	His	Gly	
	50					55					60					
Asp	Phe	Gly	Leu	Gly	Thr	Phe	Asn	Glu	Leu	Asp	Gly	Glu	Met	Ile	Ala	
65					70					75					80	
Phe	Ser	Ser	Gln	Val	Tyr	Gln	Leu	Arg	Ala	Asp	Gly	Ser	Ala	Arg	Ala	
			85						90					95		
Ala	Lys	Pro	Glu	Gln	Lys	Thr	Pro	Phe	Ala	Val	Met	Thr	Trp	Phe	Gln	
			100					105					110			
Pro	Gln	Tyr	Arg	Lys	Thr	Phe	Asp	Gly	Pro	Val	Ser	Arg	Gln	Gln	Ile	
		115					120					125				
His	Asp	Val	Ile	Asp	Gln	Gln	Val	Pro	Ser	Asp	Asn	Leu	Phe	Cys	Ala	
	130					135					140					
Leu	Arg	Ile	Asp	Gly	Asn	Phe	Arg	His	Ala	His	Thr	Arg	Thr	Val	Pro	
145					150					155					160	
Arg	Gln	Thr	Pro	Pro	Tyr	Arg	Ala	Met	Thr	Asp	Val	Leu	Asp	Asp	Gln	
			165						170					175		
Pro	Val	Phe	Arg	Phe	Asn	Gln	Arg	Glu	Gly	Val	Leu	Val	Gly	Phe	Arg	
			180					185					190			
Thr	Pro	Gln	His	Met	Gln	Gly	Ile	Asn	Val	Ala	Gly	Tyr	His	Glu	His	
		195					200					205				
Phe	Ile	Thr	Asp	Asp	Arg	Gln	Gly	Gly	Gly	His	Leu	Leu	Asp	Tyr	Gln	
	210					215					220					
Leu	Glu	Asn	Gly	Val	Leu	Thr	Phe	Gly	Glu	Ile	His	Lys	Leu	Met	Ile	
225					230					235					240	
Asp	Leu	Pro	Ala	Asp	Ser	Ala	Phe	Leu	Gln	Ala	Asn	Leu	His	Pro	Ser	
			245						250					255		
Asn	Leu	Asp	Ala	Ala	Ile	Arg	Ala	Val	Glu	Asn						

260

265

<210> 9844

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 9844

```

Pro Ala Ala Asp Gly Pro Ala Pro Ser Gln Pro Asp Phe Val Asn Gln
1      5      10      15
Tyr Lys Asp Arg Glu Met Gln Lys Val Ala Leu Val Thr Gly Ser Gly
      20      25      30
Gln Gly Ile Gly Lys Ala Ile Ala Leu Arg Leu Val Lys Asp Gly Phe
      35      40      45
Ala Val Ala Ile Ala Asp Tyr Asn Glu Glu Thr Ala Lys Ala Val Ala
      50      55      60
Asp Glu Ile Thr Arg Asn Gly Gly Lys Ala Val Ala Val Lys Val Asp
65      70      75      80
Val Ser Asp Arg Glu Gln Val Phe Ala Ala Val Glu Lys Ala Arg Thr
      85      90      95
Ala Leu Gly Gly Phe Asn Val Ile Val Asn Asn Ala Gly Val Ala Pro
      100     105     110
Ser Thr Pro Ile Glu Ser Ile Thr Pro Glu Ile Val Asp Lys Val Tyr
      115     120     125
Asn Ile Asn Val Lys Gly Val Ile Trp Gly Ile Gln Ala Ala Ile Asp
      130     135     140
Ala Phe Arg Lys Glu Gly His Gly Gly Lys Ile Ile Asn Ala Cys Ser
145      150     155     160
Gln Ala Gly His Thr Gly Asn Pro Glu Leu Ala Val Tyr Ser Ser Ser
      165     170     175
Lys Phe Ala Val Arg Gly Leu Thr Gln Thr Ala Ala Arg Asp Leu Ala
      180     185     190
Pro Leu Gly Ile Thr Val Asn Ala Tyr Cys Pro Gly Ile Val Lys Thr
      195     200     205
Pro Met Trp Ala Glu Ile Asp Arg Gln Val Ser Glu Ala Ala Gly Lys
      210     215     220
Pro Leu Gly Tyr Gly Thr Glu Thr Phe Ala Lys Arg Ile Thr Leu Gly
225      230     235     240
Arg Leu Ser Glu Pro Glu Asp Val Ala Ala Cys Val Ser Tyr Leu Ala
      245     250     255
Gly Pro Asp Ser Asp Tyr Met Thr Gly Gln Ser Leu Leu Ile Asp Gly
      260     265     270
Gly Met Val Phe Asn
      275

```

<210> 9845

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 9845

```

Lys Pro Pro Pro Thr Arg Arg Gly Asn Ala Phe Trp Ala Pro Cys Arg
1      5      10      15
Thr Ala Pro Thr Ala Thr Arg Arg Gly Ala Pro Ile Ser Pro Ala Arg
      20      25      30
Arg Thr Gly Arg Thr Phe Leu Ser Lys Lys Pro Ile Ser Thr Arg Trp
      35      40      45
Lys Asn Ala Thr Ala Ser Ala Thr Ala Met Asn Arg Thr Ala Gly Thr
      50      55      60
Arg Trp Met Ser Gly Ser Ala Leu Ile Lys Pro Leu Thr Asn Pro Thr
65      70      75      80

```

Val Ser Ala Gly Trp
85

<210> 9846

<211> 415

<212> PRT

<213> *Enterobacter cloacae*

<400> 9846

Arg	Met	Ala	Ile	Pro	Ala	Arg	Val	Arg	Ala	Ala	Asn	Leu	Ser	Ala	Gly	1	5	10	15
Thr	Leu	Phe	Pro	Phe	Pro	Asp	Gly	Arg	Leu	Met	Ile	Ser	Pro	Gln	Gly	20	25	30	35
Ala	Ala	Met	Ile	Asn	Val	Gly	Ile	Ile	Gly	Ser	Gly	Phe	Ile	Gly	Pro	40	45	50	55
Ala	His	Ile	Glu	Ala	Leu	Arg	Arg	Leu	Gly	Phe	Val	Gln	Val	Val	Ala	60	65	70	75
Leu	Cys	Asp	Gly	Ser	Leu	Val	Lys	Ala	Gln	Glu	Lys	Ala	Arg	Gln	Leu	80	85	90	95
Asn	Val	Pro	His	Ala	Tyr	Ala	Ser	Val	Glu	Glu	Leu	Leu	Ala	His	Pro	100	105	110	115
Asn	Leu	His	Ala	Val	His	Asn	Cys	Thr	Pro	Asn	His	Leu	His	Ala	Glu	120	125	130	135
Ile	Asn	Arg	Gln	Ile	Leu	Arg	Ala	Gly	Lys	His	Val	Phe	Ser	Glu	Lys	140	145	150	155
Pro	Leu	Cys	Met	Thr	Pro	Asp	Glu	Ala	Arg	Glu	Leu	Val	Ala	Leu	Ala	160	165	170	175
Glu	Gln	Ala	Gly	Val	Val	His	Gly	Val	Ser	Phe	Val	Tyr	Arg	Gln	Phe	180	185	190	195
Ala	Met	Val	Arg	Gln	Ala	Ala	Ser	Met	Met	Arg	Ala	Gly	Thr	Val	Gly	200	205	210	215
Arg	Leu	Phe	Ala	Ser	His	Gly	Ser	Tyr	Leu	Gln	Asp	Trp	Met	Leu	Leu	220	225	230	235
Glu	Thr	Asp	Tyr	Asn	Trp	Arg	Val	Glu	Ala	Ala	Leu	Gly	Gly	Ala	Ser	240	245	250	255
Arg	Ala	Val	Ala	Asp	Ile	Gly	Ser	His	Trp	Cys	Asp	Thr	Val	Gln	Tyr	260	265	270	275
Val	Thr	Gly	Arg	Arg	Ile	Thr	Glu	Val	Met	Ala	Asp	Leu	Ser	Ile	Val	280	285	290	295
Trp	Pro	Arg	Arg	Lys	Ala	Ser	Ala	Gly	Gly	Tyr	Gln	Thr	Phe	Ser	His	300	305	310	315
Asp	Glu	Gln	Ala	Glu	Tyr	Glu	Val	Lys	Pro	Val	Thr	Thr	Glu	Asp	Phe	320	325	330	335
Gly	Ser	Val	Leu	Phe	Arg	Phe	Asp	Asp	Gly	Ser	Lys	Gly	Ser	Phe	Ser	340	345	350	355
Val	Ser	Gln	Val	Ser	Ala	Gly	Arg	Lys	Asn	Arg	Leu	Thr	Phe	Glu	Ile	360	365	370	375
Asn	Gly	Ser	Glu	Gln	Ser	Val	Ala	Trp	Asp	Gln	Glu	Ile	Pro	Gln	Gln	380	385	390	395
Leu	Trp	Ile	Gly	His	Arg	Ala	Arg	Ala	Asn	Gln	Thr	Leu	Thr	Asp	Asp	400	405	410	415
Pro	Gly	Leu	Met	Asn	Pro	Asp	Val	Ala	Asp	Ser	Ala	His	Phe	Pro	Gly				
Gly	His	Ile	Glu	Gly	Trp	Pro	Asp	Ala	Phe	Lys	Asn	Met	Met	Ala	Gln				
Phe	Tyr	Arg	Ala	Val	Gln	Ala	Gly	Ala	Met	Pro	Asp	Thr	Pro	Gln	Phe				
Ala	Thr	Phe	His	Asp	Gly	Ala	Asn	Val	Met	Tyr	Ile	Ile	Asp	Ala	Ile				
Val	Lys	Ser	His	Gln	Gln	Arg	Trp	Val	Arg	Val	Glu	Gln							

<210> 9847
 <211> 340
 <212> PRT
 <213> Enterobacter cloacae

<400> 9847

```

Ile Tyr Gly Ser Leu His Lys Thr Leu Thr Ala Gly Cys Val Val Ala
1      5      10      15
Met Ser Ile Gln Lys Ile Ala Gln Leu Ala Gly Val Ser Val Ala Thr
      20      25      30
Val Ser Arg Val Leu Asn Asn Ser Asp Thr Val Lys Ala Lys Asn Arg
      35      40      45
Glu Arg Val Leu Arg Ala Ile Gln Glu Ser Asn Tyr Gln Pro Asn Leu
      50      55      60
Leu Ala Arg Gln Leu Arg Thr Ala Arg Ser Tyr Met Ile Leu Val Met
65      70      75      80
Val Ser Asn Ile Ala Asn Pro Phe Cys Ala Glu Val Val Lys Gly Ile
      85      90      95
Glu Ala Glu Ala Glu Lys Asn Gly Tyr Arg Ile Leu Leu Cys Asn Ser
      100      105      110
Gly Ser Asp Ile Glu Arg Ser Arg Ser Gly Leu Ser Leu Leu Ser Gly
      115      120      125
Lys Ile Val Asp Gly Ile Ile Thr Met Asp Ala Phe Ser Lys Leu Pro
      130      135      140
Glu Leu Ala Ala Leu Ile Gly Asn Ala Pro Trp Val Gln Cys Ala Glu
145      150      155      160
Tyr Ala Asp Ala Gly Ala Val Ser Cys Val Gly Ile Asn Asp Val Asp
      165      170      175
Ala Ser Gln His Ala Val Ser Gln Leu Ala Asp Gly Gly Arg Lys Arg
      180      185      190
Ile Ala Met Ile Asn His Asp Leu Ser Tyr Lys Tyr Ala Arg Leu Arg
      195      200      205
Glu Arg Gly Tyr Lys Ser Val Ile His Leu Arg Asp Leu Asp Tyr Gln
      210      215      220
Ala Val Glu Tyr Ala Ser Asp Leu Ser Ser Gly Ala Gly Met Ala Ala
225      230      235      240
Met Gln Asn Leu Leu Lys Asp Asn Pro Pro Asp Ala Val Phe Ala Val
      245      250      255
Ser Asp Thr Leu Ala Ala Gly Ala Leu Arg Ala Ile Gln Gln Ala Gly
      260      265      270
Leu Arg Val Pro Glu Asp Ile Ala Val Val Gly Phe Asp Gly Thr Glu
      275      280      285
Leu Ala Asp Met Ile Ser Leu Thr Thr Ile Glu Gln Pro Ser Arg Asp
      290      295      300
Ile Gly Arg Lys Ala Val Asp Leu Leu Leu Asn Lys Ile Asp Asn Pro
305      310      315      320
Asp Ala Pro Thr Glu Arg Val Met Met Asp Trp Arg Phe Ile Ser Arg
      325      330      335
Ala Ser Thr
      340

```

<210> 9848
 <211> 103
 <212> PRT
 <213> Enterobacter cloacae

<400> 9848

```

Asn Asp Asn Arg Arg Cys Trp Met Ser Lys Lys Ile Ile Asp Trp Asp
1      5      10      15
Glu Leu Arg Ala Glu Leu Leu Ser Asp Ser Glu Val Gln Ala Ser Phe

```



```
<210> 9849
<211> 544
<212> PRT
<213> Enterobacter cloacae
```

<400> 9849																
Tyr	Cys	Lys	Leu	Leu	Pro	Phe	Ala	Leu	Ala	Leu	Leu	Thr	Asn	Phe	Val	
1			5						10					15		
Gly	Glu	Gln	Ala	Val	Met	Lys	Arg	Val	Trp	Ser	Gly	Leu	Leu	Leu	Gly	
			20					25						30		
Ile	Gly	Ala	Leu	Pro	Ala	Val	Ala	Ala	Thr	Cys	Glu	Gln	Thr	Ser	Arg	
		35					40					45				
Gln	Gly	Asp	Ile	Gln	Gly	Lys	Phe	Asp	Ala	Ser	Gly	Glu	Val	Cys	Phe	
	50					55					60					
Ser	Leu	Pro	Glu	Leu	Gly	Glu	Asn	Tyr	Val	Ser	Ala	Thr	Leu	Asn	Gly	
65					70					75					80	
Val	Thr	Asp	Ala	Arg	Leu	Leu	Asp	Gly	Gln	Asn	Arg	Arg	Ile	Arg	Thr	
				85					90					95		
Leu	Ile	Glu	Asn	Gly	Pro	Ala	Asp	Gly	Glu	His	Thr	Leu	Leu	Phe	Ala	
			100					105					110			
Leu	Pro	Val	Lys	Gln	Asn	Thr	Ser	Leu	Val	Leu	His	Gly	Glu	Ala	Gly	
		115						120				125				
Lys	Pro	Trp	Arg	Phe	Gln	Trp	Arg	Met	Lys	Glu	Thr	Ser	Pro	Leu	Pro	
	130					135					140					
Arg	Val	Gln	Met	Leu	Ala	Pro	Glu	Ser	Pro	Thr	Leu	Lys	Ala	Leu	Ala	
145					150					155					160	
Ser	Val	Ile	Ser	Ala	Gly	Gly	Ser	Thr	Glu	Ala	Phe	Trp	Gln	Ala	Gln	
				165					170					175		
Arg	Arg	Gln	Gly	Thr	Pro	Met	Val	Glu	Pro	Val	Asp	Ala	Ser	His	Lys	
			180					185					190			
Arg	Val	Thr	Phe	Leu	Trp	Arg	Gly	Ala	Arg	Asp	Asn	Val	Phe	Ile	Leu	
		195						200				205				
Gly	Ser	Pro	Ala	Gly	Asp	His	Asp	Pro	Leu	Phe	Arg	Leu	Gly	Asn	Ser	
		210				215					220					
Asp	Val	Trp	Phe	Arg	Ser	Tyr	Val	Val	Pro	Ala	Asp	Thr	Val	Met	Gln	
225					230					235					240	
Tyr	Lys	Leu	Ala	Pro	Asp	Val	Pro	Ile	Val	Glu	Gly	Ser	Thr	Arg	Asp	
			245						250					255		
Gln	Arg	Arg	Ala	Ile	Leu	Val	Ser	Ala	Gln	Ala	Asp	Pro	Leu	Asn	Pro	
			260					265					270			
Asn	Thr	Phe	Gly	Glu	Gln	Lys	Thr	Asp	Arg	Trp	Asn	Arg	Phe	Ser	Leu	
		275						280				285				
Leu	Asp	Leu	Ser	Pro	Ala	Arg	Tyr	Cys	Ser	Val	Gln	Ala	Thr	Ala	Lys	
		290				295					300					
Pro	Leu	Val	His	Gly	Thr	Leu	Ser	Arg	Gln	Ser	Phe	Ser	Ser	His	Ile	
305					310					315					320	
Leu	Gly	Asn	Ala	Arg	Asp	Val	Met	Ile	Tyr	Gln	Pro	Arg	Gly	Ala	Gln	
			325						330					335		
Pro	Ala	Arg														

```

      340      345      350
Glu Tyr His Phe Ala Asn Val Leu Asp Gly Leu Ile Ala Arg His His
      355      360      365
Leu Pro Pro Ile Asn Val Val Phe Ile Asp Ser Leu Asp His Ala Arg
      370      375      380
Arg Gly Asn Glu Leu Pro Asn Pro Asp Phe Ala Asp Phe Met Ala
385      390      395
His Glu Leu Leu Pro Trp Leu Arg Gly Lys Gly Ile Gly Met Gln Arg
      405      410      415
Gln Lys Thr Val Leu Ala Gly Ser Ser Tyr Gly Gly Ile Ala Ser Ser
      420      425      430
Trp Val Ala Leu Arg Tyr Pro Arg Leu Phe Gly Asn Val Leu Ser Leu
      435      440      445
Ser Gly Ser Tyr Trp Trp Ala Pro Glu Gly Asp Ala Pro Gly Trp Leu
      450      455      460
Thr Arg Gln Tyr Gln Gln Ser Pro Pro Tyr Pro Val Arg Phe Trp Leu
465      470      475
Gln Ala Gly Lys Phe Glu Thr Ala Gly Pro Gly Gly Gly Ile Tyr Arg
      485      490      495
Thr Thr Gln Asp Phe Glu Gln Val Leu Arg Lys Lys Gly Tyr Arg Val
      500      505      510
Ser Phe His Pro Ser Ser Ser Gly His Asp Tyr Ala Ala Trp Cys Glu
      515      520      525
Ala Leu Ile His Gly Met Arg Asp Leu Thr Gly Leu Arg Arg Gln
      530      535      540

```

<210> 9850

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 9850

```

Pro Met Ser Asp Tyr Pro Thr Ile Ala Leu Thr Gly Pro Gly Ala Ile
1      5      10      15
Gly Thr Thr Ile Ala Ala Val Leu His Glu Ala Gly Arg Thr Pro Leu
      20      25      30
Leu Cys Gly Arg Thr Ala His Pro Glu Leu Arg Leu Arg His Asp Glu
      35      40      45
Gly Glu Ile Val Val Pro Gly Pro Val Leu Thr Asp Pro Ser Val Ile
      50      55      60
Thr Arg Pro Val Asp Leu Val Phe Leu Ala Val Lys Thr Thr Gln Asn
65      70      75      80
Ala Asp Ser Ala Gly Trp Leu Arg Ala Leu Cys Asp Glu Asn Thr Val
      85      90      95
Val Cys Ala Leu Gln Asn Gly Val Glu Gln Lys Ala Gln Leu Ala Pro
      100      105      110
Leu Val Asn Gly Ala Thr Val Leu Pro Ser Val Val Trp Phe Pro Ala
      115      120      125
Gln Arg Glu Pro Asp Ala Ser Val Trp Leu Arg Ala Lys Pro Arg Leu
      130      135      140
Thr Leu Pro Asp Val Pro Gln Ala Gln Arg Val Val Glu Ala Leu Arg
145      150      155      160
Asp Thr Arg Cys Ala Val Glu Leu Ser Glu Asp Phe Pro Thr Val Ala
      165      170      175
Trp Arg Lys Leu Leu Gln Asn Ala Val Ala Gly Leu Met Val Leu Ala
      180      185      190
Asn Arg Arg Ala Gly Met Phe Arg Arg Glu Asp Ile Ser Glu Leu Ala
      195      200      205
Leu Ala Tyr Leu Arg Glu Gly Leu Thr Val Ser Arg Ala Glu Gly Ala
      210      215      220
Lys Leu Asp Asp Ala Val Ala Glu Glu Ile Leu Ala Asn Phe Gln Arg

```

225 230 235 240
 Ala Pro Val Asp Leu Gly Thr Ser Ile Leu Ala Asp Arg Gln Ala Asp
 245 250 255
 Arg Pro Met Glu Trp Asp Ile Arg Asn Gly Val Ile Gln Arg Tyr Gly
 260 265 270
 Arg Arg His Gly Ile Ala Val Pro Val Ser Asp Val Val Val Pro Leu
 275 280 285
 Leu Ala Ala Gly Ser Glu Gly Pro Gly
 290 295

<210> 9851

<211> 593

<212> PRT

<213> Enterobacter cloacae

<400> 9851

Leu Thr Cys Pro Pro Thr Ala Arg Phe Tyr Arg Pro Ile Cys Thr Pro
 1 5 10 15
 Ala Thr Leu Met Arg Leu Ser Ala Pro Ser Lys Thr Asn Arg Arg Thr
 20 25 30
 Thr Val Asn Ser Glu Lys Gln Ser Arg Gln Trp Ala His Gly Ala Asp
 35 40 45
 Met Val Val Gly Gln Leu Glu Ala Gln Gly Val Lys Gln Val Phe Gly
 50 55 60
 Ile Pro Gly Ala Lys Ile Asp Lys Val Phe Asp Ser Leu Leu Asp Ser
 65 70 75 80
 Ser Ile Glu Ile Ile Pro Val Arg His Glu Ala Asn Ala Ala Phe Met
 85 90 95
 Ala Ala Ala Val Gly Arg Leu Thr Gly Lys Ala Gly Val Ala Leu Val
 100 105 110
 Thr Ser Gly Pro Gly Cys Ser Asn Leu Ile Thr Gly Ile Ala Thr Ala
 115 120 125
 Asn Ser Glu Gly Asp Pro Val Ala Leu Gly Gly Ala Val Lys Arg
 130 135 140
 Ala Asp Lys Ala Lys Leu Val His Gln Ser Met Asp Thr Val Ala Met
 145 150 155 160
 Phe Ser Pro Val Thr Lys Tyr Ala Val Glu Val Asn Ser Pro Asp Ala
 165 170 175
 Ile Ala Glu Val Val Ser Asn Ala Phe Arg Ala Ala Glu Gln Gly Arg
 180 185 190
 Pro Gly Gly Ala Phe Val Ser Leu Pro Gln Asp Ile Val Asp Gln Pro
 195 200 205
 Thr Thr Gly Ala Ile Leu Pro Ala Ser Thr Ala Ala Leu Met Gly Pro
 210 215 220
 Ala Pro Glu Ser Ala Ile Asn Glu Val Ala Lys Leu Ile Ala Lys Ala
 225 230 235 240
 Lys Asn Pro Val Ile Leu Leu Gly Leu Met Ala Ser Gln Pro Ala Asn
 245 250 255
 Ser Ala Ala Leu His Lys Leu Leu Glu Arg Ser Arg Ile Pro Val Thr
 260 265 270
 Ser Thr Tyr Gln Ala Ala Gly Ala Val Asn Gln Glu His Phe Thr Arg
 275 280 285
 Phe Ala Gly Arg Val Gly Leu Phe Asn Asn Gln Ala Gly Asp Arg Leu
 290 295 300
 Leu His Leu Ala Asp Leu Ile Ile Cys Ile Gly Tyr Ser Pro Val Glu
 305 310 315 320
 Tyr Glu Pro Ser Met Trp Asn Ser Gly Asp Ala Thr Leu Val His Ile
 325 330 335
 Asp Val Leu Pro Ala Tyr Glu Glu Arg Lys Tyr Val Pro Asp Leu Glu
 340 345 350
 Leu Val Gly Asp Ile Ala Ala Thr Leu Asn Leu Leu Ala Ser Arg Ile

```

      355              360              365
Glu His Lys Leu Glu Leu Ser Gln Arg Ala Ser Glu Ile Leu Val Asp
370              375              380
Arg Gln His Gln Arg Asp Leu Leu Asp Arg Arg Gly Ala Ser Leu Asn
385              390              395
Gln Phe Ala Leu His Pro Leu Arg Ile Val Arg Ala Met Gln Asp Ile
      405              410              415
Val Asn Asn Asp Val Thr Leu Thr Val Asp Met Gly Ser Phe His Ile
      420              425              430
Trp Ile Ala Arg Tyr Leu Tyr Ser Phe Arg Ala Arg Gln Val Met Ile
      435              440              445
Ser Asn Gly Gln Gln Thr Met Gly Val Ala Leu Pro Trp Ala Ile Gly
      450              455              460
Ala Trp Leu Val Asn Pro Gly Arg Lys Val Val Ser Val Ser Gly Asp
      465              470              475
Gly Gly Phe Leu Gln Ser Ser Met Glu Leu Glu Thr Ala Val Arg Leu
      485              490              495
Asn Ala Asn Ile Leu His Ile Ile Trp Val Asp Asn Ala Tyr Asn Met
      500              505              510
Val Ala Ile Gln Glu Glu Lys Lys Tyr Gln Arg Leu Ser Gly Val Glu
      515              520              525
Phe Gly Pro Val Asp Phe Lys Ala Tyr Ala Asp Ala Phe Gly Ala Lys
      530              535              540
Gly Phe Ala Val Glu Ser Ala Asp Ala Leu Glu Pro Thr Leu Arg Ala
      545              550              555
Ala Met Asp Val Asp Gly Pro Ala Val Val Ala Ile Pro Val Asp Tyr
      565              570              575
Ser Asp Asn Pro Leu Leu Met Gly Gln Leu His Leu Ser Gln Ile Leu
      580              585              590

```

<210> 9852

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 9852

```

Pro Arg Pro Pro Arg Gly Ile Ser Arg Arg Trp Gly Ser Pro Leu Thr
1      5      10
Pro Ile Ala Arg Ala Ser Ser Lys Arg Arg Cys Gly Arg Lys Ser Thr
      20      25      30
Val Lys Ser Pro Arg Arg Arg Val Asn Arg Leu Ala Thr Gly Arg Lys
      35      40      45
Pro Leu Pro Asn Ala Leu Arg Leu Ala Val Cys Pro Ser Arg Lys Thr
      50      55      60
Trp Pro Pro Ala Ser Leu Thr Ser Pro Gly Arg Ile Pro Thr Thr
65      70      75      80

```

<210> 9853

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 9853

```

Val Thr Ser Leu Phe Val Arg Phe Leu Thr Cys Tyr Asn Lys Leu Leu
1      5      10      15
Thr Phe Gln Gly Val Thr Ala Val Pro Glu Ile Asn Gln His Gly Gln
      20      25      30
Thr Val Asn Asp Ile Val Pro Asp Trp Lys Cys Ala Arg Ala Leu Thr
      35      40      45

```

Arg Thr Leu Leu Thr Gly Gln Tyr Cys Arg Leu Glu Pro Leu Asp Ala
 50 55 60
 Asp Arg His Ser Ala Asp Leu Phe Glu Ala Tyr Ala Leu Gly Asp Asp
 65 70 75 80
 Ser Asp Trp Thr Trp Leu Ala Ser Thr Gln Pro Val Ser Val Glu Ala
 85 90 95
 Thr Ala His Trp Val Leu Gly Lys Val Leu Asp Asp Asp Leu Val Pro
 100 105 110
 Phe Ala Ile Ile Asp Leu Arg Thr Glu Lys Ala Val Gly Leu Val Ser
 115 120 125
 Tyr Met Ala Ile Glu Arg Phe Gln Gly Ser Val Glu Ile Gly His Val
 130 135 140
 Thr Trp Ser Arg Arg Met Lys Gly Thr Arg Val Gly Thr Glu Ala Val
 145 150 155 160
 Trp Leu Leu Leu Lys Asn Ala Phe Glu His Gln Tyr Arg Arg Leu Glu
 165 170 175
 Trp Lys Cys Asp Ser Met Asn Ile Ala Ser Arg Asn Ala Ala Glu Arg
 180 185 190
 Leu Gly Phe Val Trp Glu Gly Arg Leu Arg Gln Lys Leu Val Arg Lys
 195 200 205
 Gly Arg Asn Arg Asp Ser Asp Met Leu Ser Ile Ile Asp Gly Glu Trp
 210 215 220
 Pro Gln Arg Asp Ala Glu Leu Arg Ala Trp Leu Ala Ala Glu Asn Phe
 225 230 235 240
 Asp Gly Glu Gly Arg Gln Val Arg Arg Leu Glu Glu Phe Arg 255
 245 250

<210> 9854

<211> 731

<212> PRT

<213> Enterobacter cloacae

<400> 9854

Glu Leu Ile Met Asn Asn Thr Thr Met His Lys Thr Leu Leu Ala Ile
 1 5 10 15
 Ala Ile Gly Ala Val Thr His Ser Ala Phe Ala Ala Asp Glu Lys Lys
 20 25 30
 Glu Asp Thr Ile Val Val Gln Ser Thr Ala Gly Ser Asp Phe Lys Pro
 35 40 45
 Gly Gly Asp Gln Leu Val Pro Ala Phe Leu Asp Gly Gln Val Ala Asn
 50 55 60
 Gly Gly Arg Met Gly Met Leu Gly Gln Gln Asn Ala Met Asp Val Pro
 65 70 75 80
 Phe Asn Ile Ile Ser Tyr Thr Ser Lys Leu Val Glu Asp Gln Gln Ala
 85 90 95
 Lys Thr Ile Ala Asp Val Val Ala Asn Asp Ala Gly Val Gln Phe Val
 100 105 110
 Gln Gly Tyr Gly Asn Ser Ala Glu Thr Phe Arg Ile Arg Gly Leu Lys
 115 120 125
 Phe Asp Gly Asp Asp Met Thr Phe Gly Gly Leu Ser Gly Val Leu Pro
 130 135 140
 Arg Gln Val Val Asp Ala Gln Met Val Asp Arg Ile Glu Ile Phe Lys
 145 150 155 160
 Gly Ala Asn Ser Leu Met Asn Gly Ala Ala Ser Ser Gly Val Gly Gly
 165 170 175
 Met Ile Asn Leu Glu Pro Lys His Ala Gly Asp Thr Pro Gln Ala Lys
 180 185 190
 Val Gly Val Asp Tyr Thr Ser Asp Ser Gln Ile Gly Thr Thr Leu Asp
 195 200 205
 Ala Gly Arg Arg Phe Gly Asp Asn Asp Gln Phe Gly Ala Arg Val Asn
 210 215 220

Leu	Val	His	Arg	Glu	Gly	Glu	Thr	Gly	Val	Pro	Asn	Asp	Arg	Arg	Arg	240
Thr	Thr	Leu	Leu	Ser	Thr	Gly	Leu	Asp	Tyr	Lys	Gly	Asp	Arg	Phe	Thr	Arg
Thr	Ser	Leu	Asp	Leu	Gly	Tyr	Gln	Lys	Lys	Thr	Phe	His	Gly	Ser	Pro	255
Thr	Ser	Val	Asn	Ile	Ser	Ala	Val	Asp	Phe	Val	Pro	Glu	Pro	Pro	Lys	270
Asn	Asp	Arg	Asn	Phe	Ser	Gln	Lys	Trp	Ala	Tyr	Ser	Asp	Ile	Glu	Asn	285
Glu	Phe	Gly	Met	Trp	Arg	Ser	Glu	Tyr	Asp	Ile	Thr	Asp	Ser	Trp	Thr	300
Ala	Tyr	Thr	Gly	Leu	Gly	Ala	Gln	His	Ala	His	Glu	Glu	Gly	Ile	Tyr	315
Ser	Ala	Pro	Lys	Leu	Leu	Asp	Lys	Ser	Gly	Asn	Ala	Val	Val	Ser	Arg	330
Leu	Asp	Thr	Asn	Arg	Ile	Ser	Asp	Ser	Val	Ser	Gly	Met	Ala	Gly	Ile	345
Arg	Gly	Asn	Phe	Thr	Thr	Gly	Phe	Val	Ser	His	Lys	Val	Asn	Val	Gly	360
Tyr	Ser	Ala	Met	Thr	Lys	Asn	Glu	Lys	Ile	Ala	Trp	Lys	Met	Ser	Ala	375
Thr	Lys	Asp	Asn	Thr	Thr	Thr	Asn	Ile	Tyr	His	Asn	Thr	Gly	Val	Asp	390
Met	Pro	Asp	Ser	Ser	Asn	Leu	Asn	Gly	Ser	Gly	Gly	Lys	Tyr	Ser	Asp	405
Pro	Leu	Thr	Ser	Gly	Arg	Thr	Arg	Thr	Gln	Gly	Trp	Leu	Leu	Ser	Asp	420
Thr	Leu	Gly	Val	Leu	Asp	Asp	Lys	Leu	Leu	Phe	Thr	Ala	Gly	Ala	Arg	435
His	Gln	Lys	Val	Val	Ile	Arg	Gly	Tyr	Asn	Lys	Ile	Thr	Gly	Ala	Glu	450
Asn	Asp	Ala	Asp	Gly	Phe	Asp	Gly	Ser	Arg	Trp	Met	Pro	Thr	Tyr	Gly	465
Val	Val	Tyr	Lys	Pro	Trp	Glu	Glu	Ile	Ser	Leu	Tyr	Ala	Asn	His	Thr	480
Glu	Ala	Leu	Gln	Pro	Gly	Glu	Thr	Ala	Pro	Arg	Ser	Ala	Asn	Asn	Tyr	495
Gly	Gln	Ser	Thr	Gly	Ile	Val	His	Ser	Lys	Gln	Asn	Glu	Val	Gly	Val	510
Lys	Ala	Asp	Phe	Gly	Arg	Val	Gly	Gly	Ser	Leu	Ala	Leu	Phe	Glu	Ile	525
Lys	Met	Pro	Ser	Ala	Ile	Leu	Asp	Asp	Ser	Gly	His	Tyr	Gly	Leu	Asp	540
Ala	Glu	Gln	Arg	Asn	Arg	Gly	Val	Glu	Leu	Asn	Val	Phe	Gly	Glu	Pro	555
Met	Leu	Gly	Met	Arg	Leu	Asn	Ala	Ser	Ala	Thr	Trp	Leu	Gln	Ala	Glu	570
Leu	Thr	Lys	Thr	Lys	Asn	Gly	Val	Asn	Gln	Gly	Asn	Asp	Ala	Ile	Gly	585
Ile	Pro	Ser	Phe	Tyr	Ala	Val	Leu	Gly	Ala	Glu	Tyr	Asp	Ile	Lys	Pro	600
Ile	Glu	Gly	Leu	Thr	Ala	Thr	Ala	Arg	Val	Asn	His	Ser	Gly	Thr	Gln	615
Tyr	Ala	Asp	Leu	Ala	Asn	Ser	Lys	Lys	Leu	Asp	Ser	Tyr	Thr	Thr	Leu	630
Asp	Leu	Gly	Met	Arg	Tyr	Arg	Phe	Ala	Val	Asn	His	Asn	Glu	Asn	Gln	645
Met	Thr	Val	Arg	Ala	Gly	Ile	Asp	Asn	Val	Thr	Asn	Glu	Asn	Tyr	Trp	660
Ser	Ser	Val	Asp	Asp	Ser	Gly	Thr	Tyr	Ile	Thr	Gln	Gly	Glu	Pro	Arg	675

705 710 715 720
 Thr Phe Lys Val Ser Val Gly Tyr Glu Phe
 725 730

<210> 9855
 <211> 163
 <212> PRT
 <213> Enterobacter cloacae

<400> 9855
 Gln Ala Val Thr Ala Met Asn Gly Thr Ile Thr Thr Trp Phe Lys Asp
 1 5 10 15
 Lys Gly Phe Gly Phe Ile Lys Asp Glu Asn Gly Asp Asn Arg Tyr Phe
 20 25 30
 His Val Ile Lys Val Ala Asn Pro Asp Leu Ile Lys Lys Asp Ala Ala
 35 40 45
 Val Thr Phe Glu Pro Thr Thr Asn Ser Lys Gly Leu Ser Ala Tyr Ala
 50 55 60
 Val Lys Val Ile Pro Glu Ser Lys His Leu Tyr Ile Ala Gly Glu Arg
 65 70 75 80
 Val Lys Leu Thr Ser Ile Lys Ser Phe Val Val Phe Ser Glu Glu Glu
 85 90 95
 Pro Val Asp Thr Lys Ile Asp Lys Glu Asn Ala Val Leu Ser Val Gly
 100 105 110
 Leu Leu Met Asn Ser Ile Lys Pro Lys Thr Glu Lys Lys Pro Gly Glu
 115 120 125
 Met Arg Thr Val Lys Lys Leu Ala Ile Thr Thr Phe Gln Asn Thr Thr
 130 135 140
 Leu Ile Phe Thr Glu Asp Glu Ile Asp Ile Asp Ala Thr Val Lys Leu
 145 150 155 160
 Leu Lys

<210> 9856
 <211> 310
 <212> PRT
 <213> Enterobacter cloacae

<400> 9856
 Cys Arg Leu Ser Lys Ile Lys Glu Ser Ala Arg Ala Met Lys Arg Pro
 1 5 10 15
 Asp Tyr Arg Thr Leu Gln Ala Leu Asp Ala Val Ile Arg Glu Arg Gly
 20 25 30
 Phe Glu Arg Ala Ala Gln Lys Leu Cys Ile Thr Gln Ser Ala Val Ser
 35 40 45
 Gln Arg Ile Lys Gln Leu Glu Asn Met Phe Gly Gln Pro Leu Leu Val
 50 55 60
 Arg Thr Val Pro Pro Arg Pro Thr Glu Gln Gly Gln Lys Leu Leu Ala
 65 70 75 80
 Leu Leu Arg Gln Val Glu Leu Leu Glu Asp Glu Trp Leu Gly Asp Glu
 85 90 95
 Gln Thr Gly Ser Thr Pro Leu Leu Leu Ser Leu Ala Val Asn Ala Asp
 100 105 110
 Ser Leu Ala Thr Trp Leu Leu Pro Ala Leu Ala Pro Val Leu Ala Asp
 115 120 125
 Ser Pro Ile Arg Leu Asn Leu Gln Val Glu Asp Glu Thr Arg Thr Gln
 130 135 140
 Glu Arg Leu Arg Arg Gly Glu Val Val Gly Ala Val Ser Ile Gln Pro
 145 150 155 160
 Gln Ala Leu Pro Ser Cys Leu Val Asp Gln Leu Gly Ala Leu Asp Tyr
 165 170 175

Leu Phe Val Gly Ser Lys Ala Phe Ala Glu Arg Tyr Phe Pro Asn Gly
 180 185 190
 Val Thr Arg Ala Ala Leu Leu Lys Ala Pro Ala Val Ala Phe Asp His
 195 200 205
 Leu Asp Asp Met His Gln Ala Phe Leu Gln Gln Asn Phe Asp Leu Pro
 210 215 220
 Pro Gly Ser Val Pro Cys His Ile Val Asn Ser Ser Glu Ala Phe Val
 225 230 235 240
 Gln Leu Ala Arg Gln Gly Thr Thr Cys Cys Met Ile Pro His Leu Gln
 245 250 255
 Ile Glu Lys Glu Leu Lys Ser Gly Glu Leu Ile Asp Leu Thr Pro Gly
 260 265 270
 Leu Tyr Gln Arg Arg Met Leu Tyr Trp His Arg Phe Ala Pro Glu Ser
 275 280 285
 Arg Met Met Arg Asn Val Thr Asp Ala Leu Leu Ala Phe Gly His Lys
 290 295 300
 Val Leu Arg Gln Asp
 305 310

<210> 9857
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<400> 9857
 Arg Ala Ser Ala Ser Pro Ile Thr Glu Pro Leu Pro Gly Arg Thr Leu
 1 5 10 15
 Ser Ser Pro Ala Gly Ser Pro Ala Cys Leu Lys Ile Arg Ala Ser Ser
 20 25 30
 Ser Ala Ile Ser Gly Val Ala Ser Ala Gly Leu Arg Ile Thr Ala Phe
 35 40 45
 Pro Ala Ala Ile Ala Gly Ala Thr Phe Cys Ile Ser Leu Ala Ile Gly
 50 55 60
 Glu Phe His Gly Val Met Ala Ala Thr Thr Pro Arg Gly Ser
 65 70 75

<210> 9858
 <211> 123
 <212> PRT
 <213> Enterobacter cloacae

<400> 9858
 Cys Arg Ala Arg Arg Gly Ser Pro Asp Gly Cys Cys Thr Gly Ser Arg
 1 5 10 15
 Arg Ala Val Ala Arg Ser Pro Ala Gly Arg Pro Ala Pro Arg Pro Ala
 20 25 30
 Arg Arg Cys Thr Gln Ser Gln Asp Ala Ala Arg Ser Cys Pro Ala Lys
 35 40 45
 Arg Tyr Trp Cys Ala Cys Cys Ala Pro Glu Ser Pro Cys Thr Pro Ala
 50 55 60
 Ser Ala Pro Arg Asp Arg Arg Ser Pro Ser Ala Tyr Pro Pro Ala Gly
 65 70 75 80
 Ala Ala Arg Gln Lys Ser Asp Arg Asp Ala Ala Arg Gln Arg Pro Thr
 85 90 95
 Ala Ala Val Asn Arg Ala Pro Ala Pro Ala Pro Asp Thr Ser Leu Pro
 100 105 110
 Asp Arg Leu Pro Ser Ser Pro Tyr Leu Ser
 115 120

<210> 9859
 <211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 9859

Leu His Thr Gly Thr Thr Phe Val Thr Leu Arg Ala Arg Phe Asp Thr
 1 5 10 15
 Glu Cys Lys Met Ser Arg Asn Val Ser Leu Ala Val Ala Phe Leu Ala
 20 25 30
 Thr Ala Leu Ser Gly His Ala Leu Ala Asp Gly Ile His Ser Phe Ser
 35 40 45
 Gln Ala Lys Thr Ala Gly Val Lys Ile Asn Ala Asp Val Pro Gly Asp
 50 55 60
 Phe Tyr Cys Gly Cys Lys Ile Asn Trp Gln Gly Lys Lys Gly Val Val
 65 70 75 80
 Asp Leu Gly Ser Cys Gly Tyr Lys Val Arg Lys Asn Glu Asn Arg Ala
 85 90 95
 Ser Arg Ile Glu Trp Glu His Val Val Pro Ala Trp Gln Phe Gly His
 100 105 110
 Gln Arg Gln Cys Trp Gln Asp Gly Gly Arg Lys Asn Cys Ala Lys Asp
 115 120 125
 Pro Val Tyr Arg Gln Met Glu Ser Asp Met His Asn Leu Gln Pro Ala
 130 135 140
 Val Gly Glu Val Asn Gly Asp Arg Gly Asn Phe Met Tyr Ser Gln Trp
 145 150 155 160
 Asn Gly Gly Glu Gly Gln Tyr Gly Gln Cys Ala Met Lys Val Asp Phe
 165 170 175
 Lys Glu Lys Val Ala Glu Pro Pro Ala Arg Ala Arg Gly Ser Ile Ala
 180 185 190
 Arg Thr Tyr Phe Tyr Met Arg Asp Arg Tyr Asp Leu Asn Leu Ser Arg
 195 200 205
 Gln Gln Thr Gln Leu Phe Asn Ala Trp Asp Lys Leu Tyr Pro Val Thr
 210 215 220
 Asp Trp Glu Cys Gln Arg Asp Glu Arg Ile Ala Lys Val Gln Gly Asn
 225 230 235 240
 His Asn Pro Tyr Val Gln Arg Ala Cys Gln Ala Gln Lys Ser
 245 250 255

<210> 9860

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 9860

His Met Glu Phe Leu Thr Met Arg Ile Pro Arg Ile Tyr His Pro Glu
 1 5 10 15
 Leu Ile Thr Pro Gly Gly Glu Ile Ala Leu Ser Asp Asp Ala Ala Asn
 20 25 30
 His Val Gly Arg Val Leu Arg Met Gly Ala Gly Gln Ala Ile Gln Leu
 35 40 45
 Phe Asp Gly Ser Asn Gln Val Phe Asp Ala Glu Ile Thr Arg Ala Asp
 50 55 60
 Lys Lys Ser Val His Val Lys Val Leu Arg Gly Asp Val Asp Asp Arg
 65 70 75 80
 Glu Ser Pro Leu His Ile His Leu Gly Gln Val Met Ser Arg Gly Glu
 85 90 95
 Lys Met Glu Phe Thr Ile Gln Lys Ser Ile Glu Leu Gly Val Ser Leu
 100 105 110
 Ile Thr Pro Leu Phe Ser Glu Arg Cys Gly Val Lys Leu Asp Ala Glu
 115 120 125
 Arg Leu Asn Lys Lys Ile Gln Gln Trp Gln Lys Ile Ala Ile Ala Ala
 130 135 140

Cys Glu Gln Ser Gly Arg Asn Arg Ile Pro Glu Ile Arg Pro Ala Met
 145 150 155 160
 Asp Leu Glu Asp Trp Cys Ala Glu Glu Ser Gly Leu Lys Leu Asn
 165 170 175
 Leu His Pro Arg Ala Ser Ala Ser Ile Asn Thr Leu Pro Leu Pro Val
 180 185 190
 Glu Arg Val Arg Leu Leu Ile Gly Pro Glu Gly Gly Leu Ser Ala Asp
 195 200 205
 Glu Ile Ala Met Thr Ala Arg Tyr Gln Phe Thr Asp Ile Leu Leu Gly
 210 215 220
 Pro Arg Val Leu Arg Thr Glu Thr Thr Ala Leu Thr Ala Ile Thr Ala
 225 230 235 240
 Leu Gln Val Arg Phe Gly Asp Leu Gly 250
 245

<210> 9861

<211> 320

<212> PRT

<213> Enterobacter cloacae

<400> 9861

Pro Glu Lys Lys Met Ile Lys Leu Gly Ile Val Met Asp Pro Ile Ala
 1 5 10 15
 Asn Ile Asn Ile Lys Lys Asp Ser Ser Phe Ala Met Leu Leu Glu Ala
 20 25 30
 Gln Arg Arg Gly Tyr Glu Leu His Tyr Met Glu Met Asn Asp Leu Tyr
 35 40 45
 Leu Ile Asn Gly Glu Ala Arg Ala Arg Thr Arg Ile Val Asn Val Glu
 50 55 60
 Gln Asn Tyr Glu Lys Trp Tyr Glu Phe Gly Thr Glu Gln Asp Ile Ala
 65 70 75 80
 Leu Ala Asp Leu Asn Val Ile Leu Met Arg Lys Asp Pro Pro Phe Asp
 85 90 95
 Thr Glu Tyr Ile Tyr Ser Thr Tyr Ile Leu Glu Arg Ala Glu Glu Lys
 100 105 110
 Gly Thr Leu Ile Val Asn Lys Pro Gln Ser Leu Arg Asp Cys Asn Glu
 115 120 125
 Lys Leu Tyr Thr Ala Trp Phe Ser Asp Leu Thr Pro Glu Thr Leu Val
 130 135 140
 Thr Arg Ser Lys Thr Gln Leu Lys Glu Phe Trp Gln Lys His Gly Asp
 145 150 155 160
 Ile Ile Met Lys Pro Leu Asp Gly Met Gly Gly Ala Ser Ile Phe Arg
 165 170 175
 Val Lys Glu Gly Asp Pro Asn Ile Gly Val Ile Ala Glu Thr Leu Thr
 180 185 190
 Glu Leu Gly Thr Arg Tyr Cys Met Ala Gln Asn Tyr Leu Pro Ala Ile
 195 200 205
 Lys Asp Gly Asp Lys Arg Val Leu Val Val Asp Gly Glu Pro Val Pro
 210 215 220
 Tyr Cys Leu Ala Arg Ile Pro Gln Gly Gly Glu Thr Arg Gly Asn Leu
 225 230 235 240
 Ala Ala Gly Gly Arg Gly Glu Pro Arg Pro Leu Ser Glu Ser Asp Trp
 245 250 255
 Glu Ile Ala Arg Arg Val Gly Pro Thr Leu Lys Ala Lys Gly Leu Ile
 260 265 270
 Phe Val Gly Leu Asp Ile Ile Gly Asp Arg Leu Thr Glu Val Asn Val
 275 280 285
 Thr Ser Pro Thr Cys Ile Arg Glu Ile Glu Ala Glu Phe Pro Ile Ser
 290 295 300
 Ile Thr Gly Met Leu Met Asp Ala Ile Glu Lys Arg Leu Gln Lys
 305 310 315 320

<210> 9862
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 9862
 Leu Arg Thr Gly Ser Phe Ser Cys Ala Gly Lys Val Ser Thr Arg Arg
 1 5 10 15
 Ser Ile Ala Cys Ala Ala Pro Arg Val Cys Ser Val Ala Asn Thr Arg
 20 25 30
 Trp Pro Val Ser Ala Ala Val Ser Ala Arg Arg Ile Val Ser Leu Ser
 35 40 45
 Arg Ser Ser Pro Ser Arg Ile Thr Ser Gly Ser Ser Arg Ser Ala Leu
 50 55 60
 Arg Arg Ala Ser Ala Lys Asp Gly Leu Cys Arg Pro Ile Ser Arg Cys
 65 70 75 80
 Trp Ile Arg Gln Arg Ser Leu Trp Tyr Ile Asn Ser Thr Gly Ser Ser
 85 90 95
 Arg Val Arg Ile Cys Pro Ser Val Trp
 100 105

<210> 9863
 <211> 109
 <212> PRT
 <213> Enterobacter cloacae

<400> 9863
 Tyr Ala Ala Ala Gly Ala Val Asp Gly Val Met Ser Ala Val Ser Pro
 1 5 10 15
 Cys Ala Asp Gly Leu Val Leu Arg Leu Tyr Ile Gln Pro Lys Ala Ser
 20 25 30
 Arg Asp Ser Ile Val Gly Leu His Gly Asp Glu Leu Lys Val Ala Ile
 35 40 45
 Thr Ala Pro Pro Val Asp Gly Gln Ala Asn Ala His Leu Thr Lys Tyr
 50 55 60
 Leu Val Lys Gln Phe Arg Val Ala Lys Ser Gln Val Ile Ile Glu Lys
 65 70 75 80
 Gly Glu Leu Gly Arg His Lys Gln Val Lys Ile Leu Asn Pro Gln Ser
 85 90 95
 Ile Pro Thr Glu Val Ala Ala Leu Thr Glu Gln Asp
 100 105

<210> 9864
 <211> 199
 <212> PRT
 <213> Enterobacter cloacae

<400> 9864
 Thr Met Gln Lys Val Val Leu Ala Thr Gly Asn Ala Gly Lys Val Arg
 1 5 10 15
 Glu Leu Ala Ser Leu Leu Asn Asp Phe Gly Leu Asp Val Val Ala Gln
 20 25 30
 Thr Glu Leu Gly Val Asp Ser Ala Glu Thr Gly Leu Thr Phe Ile
 35 40 45
 Glu Asn Ala Ile Leu Lys Ala Arg His Ala Ala Gln Val Thr Gly Leu
 50 55 60
 Pro Ala Ile Ala Asp Asp Ser Gly Leu Ala Val Asp Phe Leu Gly Gly
 65 70 75 80
 Ala Pro Gly Ile Tyr Ser Ala Arg Tyr Ser Gly Pro Asp Ala Thr Asp
 85 90 95

Gln Gln Asn Leu Glu Lys Leu Leu Val Ala Leu Lys Asp Val Pro Asp
 100 105 110
 Glu Gln Arg Thr Ala Gln Phe His Cys Val Leu Val Tyr Met Arg His
 115 120 125
 Ala Glu Asp Pro Thr Pro Ile Val Cys His Gly Ser Trp Pro Gly Val
 130 135 140
 Ile Thr Arg Glu Ala Ala Gly Asn Gly Gly Phe Gly Tyr Asp Pro Ile
 145 150 155 160
 Phe Phe Val Pro Thr Glu Gly Lys Thr Ala Ala Glu Leu Thr Arg Glu
 165 170 175
 Glu Lys Ser Ala Ile Ser His Arg Gly Arg Ala Leu Lys Leu Leu Leu
 180 185 190
 Glu Ala Leu Arg Asn Gly
 195

<210> 9865

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 9865

Gly Lys Gly Trp Gln Ser Val Gly Met Gln Thr Ile Arg Ser Tyr Ala
 1 5 10 15
 Lys Gln Leu Arg Arg Glu Leu Thr Gln Glu Arg Arg Leu Trp Tyr
 20 25 30
 Leu Leu Arg Ser Arg Arg Phe Glu Asn Tyr Lys Phe Arg Arg Gln His
 35 40 45
 Pro Val Gly Asn Tyr Ile Leu Asp Phe Ala Cys Cys Ala Ala Arg Leu
 50 55 60
 Ala Val Glu Leu Asp Gly Gly Gln His Asp Glu Asn Gln Glu Tyr Asp
 65 70 75 80
 Arg Gln Arg Thr Leu Trp Leu Asn His Lys Asp Trp His Val Ile Arg
 85 90 95
 Phe Trp Asn Asn Glu Leu Trp Asn Asn Glu Glu Ala Val Leu Glu Arg
 100 105 110
 Ile Leu Glu Thr Leu Gln Ala Leu Gln Pro Ser Pro Arg Pro Ser Pro
 115 120 125

<210> 9866

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 9866

Leu Ser Glu Ser Met Thr Met Gln Ala Ser Gln Phe Ser Ala Gln Val
 1 5 10 15
 Leu Asp Trp Tyr Asp Lys Tyr Gly Arg Lys Thr Leu Pro Trp Gln Ile
 20 25 30
 Glu Lys Thr Pro Tyr Lys Val Trp Leu Ser Glu Val Met Leu Gln Gln
 35 40 45
 Thr Gln Val Ala Thr Val Ile Pro Tyr Phe Glu Arg Phe Met Ala Arg
 50 55 60
 Phe Pro Thr Val Thr Asp Leu Ala Asn Ala Pro Leu Asp Glu Val Leu
 65 70 75 80
 His Leu Trp Thr Gly Leu Gly Tyr Tyr Ala Arg Ala Arg Asn Leu His
 85 90 95
 Lys Ala Ala Gln Gln Val Ala Thr Arg His Asn Gly Lys Phe Pro Glu
 100 105 110
 Thr Phe Asp Glu Val Ala Asp Leu Pro Gly Val Gly Arg Ser Thr Ala

115 120 125
 Gly Ala Ile Leu Ser Leu Ser Leu Gly Lys His Phe Pro Ile Leu Asp
 130 135 140
 Gly Asn Val Lys Arg Val Leu Ala Arg Cys Tyr Ala Val Asp Gly Trp
 145 150 155 160
 Pro Gly Lys Lys Glu Val Glu Lys Arg Leu Trp Glu Ile Ser Glu Ala
 165 170 175
 Val Thr Pro Ala Lys Gly Val Glu Arg Phe Asn Gln Ala Met Met Asp
 180 185 190
 Leu Gly Ala Met Val Cys Thr Arg Ser Lys Pro Lys Cys Glu Leu Cys
 195 200 205
 Pro Val Asn Asn Leu Cys Val Ala Tyr Ala Asn His Thr Trp Ala Gln
 210 215 220
 Tyr Pro Gly Lys Lys Pro Lys Gln Thr Leu Pro Glu Arg Thr Gly Tyr
 225 230 235 240
 Met Leu Leu Met Gln His Gly Asp Glu Val Phe Leu Ala Gln Arg Pro
 245 250 255
 Pro Ser Gly Leu Trp Gly Gly Leu Tyr Cys Phe Pro Gln Phe Glu Asp
 260 265 270
 Glu Ala Ser Leu Arg Ala Trp Leu Glu Gln Arg Gly Ile Ala Ala Glu
 275 280 285
 Thr Leu Thr Gln Leu Asn Ala Phe Arg His Thr Phe Ser His Phe His
 290 295 300
 Leu Asp Ile Val Pro Met Trp Leu Pro Val Ser Ser Phe Thr Ser Cys
 305 310 315 320
 Met Asp Glu Gly Thr Ala Leu Trp Tyr Asn Leu Ala Gln Pro Pro Ser
 325 330 335
 Val Gly Leu Ala Ala Pro Val Glu Arg Leu Leu Gln Gln Leu Arg Val
 340 345 350
 Gly Ala Met Val
 355

<210> 9867

<211> 420

<212> PRT

<213> Enterobacter cloacae

<400> 9867

Thr Ser Cys Ser Arg Val Lys Thr Ser Thr Ser Lys Ala Ile Arg His
 1 5 10 15
 Arg Lys Asn Asn Asn Ala Gln Leu Leu Pro Gly Cys Ala Ala Leu Ala
 20 25 30
 Arg Ala Tyr Gly Phe Val Gly Arg Val Ser Ala Ala Pro Gly Asn
 35 40 45
 Ser Asn Pro Lys Ala Asn Thr Thr Arg Thr Pro Gly Met Met Lys Lys
 50 55 60
 Leu Leu Ala Leu Ala Leu Val Ala Pro Leu Leu Val Ser Cys Ser Ser
 65 70 75 80
 Lys Lys Gly Asp Glu Tyr Asn Glu Ala Trp Val Lys Asp Thr Asn Gly
 85 90 95
 Phe Asp Ile Leu Met Gly Gln Phe Ala His Asn Ile Glu Asn Ile Trp
 100 105 110
 Gly Phe Asn Glu Val Leu Ile Ala Gly Pro Lys Asp Tyr Val Lys Tyr
 115 120 125
 Thr Asp Ala Tyr Gln Thr Arg Ser His Ile Asn Phe Asp Asp Gly Thr
 130 135 140
 Ile Thr Val Glu Thr Ile Ala Gly Thr Glu Pro Ala Ala His Leu Arg
 145 150 155 160
 Gln Ala Ile Ile Lys Thr Leu Leu Met Gly Asp Asp Pro Gly Ser Ile
 165 170 175
 Asp Leu Tyr Ser Asp Ala Asp Asp Ile Thr Ile Ser Lys Glu Pro Phe

180 185 190
 Leu Tyr Gly Gln Val Val Asp Gln Thr Gly Gln Pro Ile Arg Trp Glu
 195 200 205
 Gly Arg Ala Thr Lys Phe Ala Asp Tyr Leu Leu Gln Thr Arg Leu Lys
 210 215 220
 Ser Arg Thr Asn Gly Leu Lys Val Ile Tyr Ser Val Thr Ile Asn Leu
 225 230 235 240
 Val Pro Asn His Leu Asp Lys Arg Ala His Lys Tyr Leu Gly Met Val
 245 250 255
 Arg Gln Ala Ser Arg Lys Tyr Gly Val Asp Glu Ser Leu Ile Leu Ala
 260 265 270
 Ile Met Gln Thr Glu Ser Ser Phe Asn Pro Tyr Ala Val Ser Arg Ser
 275 280 285
 Asp Ala Leu Gly Leu Met Gln Val Gln His Ser Ala Gly Lys Asp
 290 295 300
 Val Phe Arg Ala Gln Gly Lys Ser Gly Thr Pro Ser Arg Arg Tyr Leu
 305 310 315 320
 Phe Asp Pro Gln Ser Asn Ile Asp Thr Gly Thr Ala Tyr Leu Ala Met
 325 330 335
 Leu Asn Asn Val Tyr Leu Gly Gly Ile Asp Asn Pro Thr Ser Arg Arg
 340 345 350
 Tyr Ala Val Ile Thr Ala Tyr Asn Gly Gly Ala Ser Ser Val Met Arg
 355 360 365
 Val Leu Ser Asn Asp Lys Val Gln Ala Ala Asn Ile Ile Asn Ser Met
 370 375 380
 Ala Pro Gly Asp Val Tyr Asp Thr Leu Thr Thr Arg His Pro Cys Ala
 385 390 395 400
 Glu Ser Arg Arg Tyr Met Tyr Lys Val Asn Thr Ala Gln Lys Asn Tyr
 405 410 415
 Arg Arg Arg
 420

<210> 9868

<211> 561

<212> PRT

<213> Enterobacter cloacae

<400> 9868

Lys Met Ile Tyr Ser Ala Asp Leu Leu Ile Ser Arg Val Ile Val Met
 1 5 10 15
 Lys Val Ser Phe Gln Ile Lys Leu Phe Ile Ser Leu Val Ala Phe Phe
 20 25 30
 Ser Val Leu Phe Ala Leu Leu Gly Tyr Tyr Tyr Val Asp Val Gly
 35 40 45
 Arg Gln Leu Tyr Gln Glu Met Ser Ala Arg Ala Lys Ile Gln Ala Glu
 50 55 60
 Glu Ile Ala Leu Ile Pro Thr Leu Arg Lys Glu Val Glu Gln Lys Asp
 65 70 75 80
 Ile Gln Gly Ile His Asp Phe Met Gln Lys Ile Ala Ala Arg Ser Asp
 85 90 95
 Ala Ser Phe Ile Val Ile Gly Asp Asn Lys Gly Leu His Leu Phe His
 100 105 110
 Ser Val Phe Ala Asp Arg Val Gly Lys Thr Leu Val Gly Gly Asp Asn
 115 120 125
 Asp Glu Val Leu His Gly Lys Ser Thr Ile Thr Ile Arg Lys Gly Gly
 130 135 140
 Leu Gly Ile Ser Leu Arg Ser Lys Ala Pro Ile Phe Asn Asp Ala Gly
 145 150 155 160
 Gln Val Val Gly Ile Val Ser Val Gly Tyr Leu Thr Ser Tyr Leu Asp
 165 170 175
 Thr Ile Thr Val Ser Lys Val Val Asn Ile Leu Ile Ala Ala Val Leu

180 185 190
 Leu Leu Ile Ala Leu Phe Ile Phe Ser Trp Phe Phe Thr Arg Ser Ile
 195 200 205
 Lys Lys Gln Ile Phe Ser Leu Glu Pro Arg Glu Ile Gly Leu Leu Val
 210 215 220
 Arg Gln Gln Lys Ala Met Met Glu Ser Ile Tyr Glu Gly Val Ile Ala
 225 230 235 240
 Ile Asp Asp Asp Leu Arg Ile Glu Val Ile Asn Gln Ala Ala Arg Lys
 245 250 255
 Leu Leu Gly Leu Arg Gln Pro Ala Arg Glu Leu Arg Gly Gln Leu Ile
 260 265 270
 Ser Gln Val Ile Ala Pro Val Pro Phe Phe Asn Ala Gln Thr Met Leu
 275 280 285
 Ala Lys Asp Thr His Asp Glu Ile Cys Arg Phe Asn Asp Leu Thr Val
 290 295 300
 Ile Ala Ser Arg Val Arg Ile Met Leu Glu Asp Ala Leu Gln Gly Trp
 305 310 315 320
 Val Ile Thr Phe Arg Asp Arg Asn Glu Ile Asp Ser Leu Ser Ala Gln
 325 330 335
 Leu Ser Gln Val Lys Arg Tyr Val Asp Asn Leu Arg Ile Met Arg His
 340 345 350
 Glu Gln Leu Asn Arg Met Thr Thr Leu Ser Gly Leu Leu His Met Gly
 355 360 365
 Arg Tyr Asp Glu Ala Ile Arg Tyr Ile Gln Ala Gln Ser Glu His Ala
 370 375 380
 Gln Glu Leu Leu Asp Phe Ile Ser Ser Arg Phe Ser Ser Pro Thr Leu
 385 390 395 400
 Cys Gly Leu Leu Leu Gly Lys Ala Ala Arg Ala Arg Glu Lys Gly Val
 405 410 415
 Glu Leu Ser Phe Asp Pro Ala Cys Arg Val Asp Lys Pro Phe Leu Pro
 420 425 430
 Leu Leu Glu Ser Glu Leu Ile Ser Ile Ile Gly Asn Leu Leu Asp Asn
 435 440 445
 Ala Ile Glu Ala Thr Gln Arg Ala Pro Leu Pro His Ala Pro Val Asp
 450 455 460
 Val Leu Ile Lys Leu Asn Glu Gln Glu Leu Ile Ile Glu Val Ala Asp
 465 470 475 480
 Gln Gly Val Gly Ile Thr Pro Glu Ile Arg Asp Arg Ile Phe Glu Arg
 485 490 495
 Gly Ile Thr Thr Lys Thr Arg Gly Asp His Gly Ile Gly Leu Tyr Leu
 500 505 510
 Ile Glu Ser Tyr Val Thr Gln Ala Gly Gly Ala Ile Glu Val Ala Asp
 515 520 525
 Asn Thr Pro Arg Gly Ala Ile Phe Ser Leu Phe Ile Pro Ala Thr Gly
 530 535 540
 Thr Ala Arg His Pro Val Gln Glu Leu Glu Asp Thr Asp Tyr Ala Thr
 545 550 555 560

<210> 9869

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 9869

Glu Ile Leu Ser Ala Ile Pro Asn Arg Ser Ile Ala Ala Arg Val Ser
 1 5 10 15
 Pro Pro Pro Ala Ile Glu Asn Ala Ser Leu Ser Ala Ile Ala Leu Ala
 20 25 30
 Thr Ile Ser Val Pro Leu Arg Lys Phe Gly Asn Ser Asn Thr Pro Thr

35 40 45
 Gly Pro Phe His Arg Ile Val Phe Ala Phe Leu Arg Ile Ser Ala Ser
 50 55 60
 Phe Cys Ala Glu Thr Ser Pro Arg Ser Arg Ile Cys Ser Ser Ser Leu
 65 70 75 80
 Met Ser Leu Thr Asp Phe Arg Val Ala Val Ala Val Ser Glu Asn Ser
 85 90 95
 Val Ala Thr Arg Thr Ser Val Gly Thr Gly Ile Ser Gln Val Pro Ser
 100 105 110
 Arg Arg Leu Ala Ser Ser Thr Arg Ser Ala Ser Tyr Arg Asp Leu Pro
 115 120 125
 Thr Leu Trp Pro Cys Ala Ala Thr Lys Val Phe Ala Ile Pro Pro Pro
 130 135 140
 Thr Ile Ser Trp Ser Ala Ile Leu Asp Arg Glu Ser Thr Val Ser
 145 150 155 160
 Leu Val Glu Thr Leu Glu Pro Pro Thr Ile Ala Thr Ile Gly Arg Ala
 165 170 175
 Gly Ser Phe Ser Ala Leu Pro Ser Ala Ser Ser Ser Ser Ala Ser Ser
 180 185 190
 Gly Pro Ala Gln Ala Thr Ser Ala Asn Leu Pro Ile Pro Trp Val Asp
 195 200 205
 Ala Cys Ala Arg
 210

<210> 9870

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 9870

Ile Phe Leu Ile Leu Ser Pro Thr Pro Ala Ser Leu Thr Val His Phe
 1 5 10 15
 Ser Glu Leu Ile Gln Ile Asn Glu Tyr Gly Ser Asn Ile Met Lys Met
 20 25 30
 Arg Ala Ile Gly Leu Ala Val Gly Thr Thr Leu Leu Leu Ser Gly Cys
 35 40 45
 Gln Asn Met Asp Ser Asn Gly Leu Met Thr Ser Gly Ala Glu Ala Phe
 50 55 60
 Gln Ala Tyr Ser Leu Ser Asp Ala Gln Val Lys Ala Leu Ser Asp Glu
 65 70 75 80
 Ala Cys Lys Asp Met Asp Gly Lys Ala Thr Leu Ala Pro Ala Asn Ser
 85 90 95
 Thr Tyr Thr Gln Arg Leu Asn Lys Ile Ala Ser Ala Leu Gly Asp Asn
 100 105 110
 Ile Asn Gly Gln Pro Val Asn Tyr Lys Val Tyr Met Ala Lys Asp Val
 115 120 125
 Asn Ala Phe Ala Met Ala Asn Gly Cys Ile Arg Val Tyr Ser Gly Leu
 130 135 140
 Met Asp Met Met Thr Asp Asn Glu Val Glu Ala Val Ile Gly His Glu
 145 150 155 160
 Met Gly His Val Ala Leu Gly His Val Lys Lys Gly Met Gln Val Ala
 165 170 175
 Leu Gly Thr Asn Ala Val Arg Ala Ala Ala Ser Ala Gly Gly Ile
 180 185 190
 Val Gly Ser Leu Ser Gln Ser Gln Leu Gly Asp Val Gly Glu Lys Leu
 195 200 205
 Val Asn Ser Gln Phe Ser Gln Arg Gln Glu Ser Glu Ala Asp Asp Tyr
 210 215 220
 Ser Tyr Asp Leu Leu Arg Lys Arg Gly Ile Asn Pro Ser Gly Leu Ala
 225 230 235 240
 Thr Ser Phe Glu Lys Leu Ala Lys Leu Glu Glu Gly Arg Gln Ser Ser

4400> 9871															
Phe 1	Ile	Phe	Thr	Lys 5	Gln	Arg	Val	Ser	Gln 10	Val	Asn	His	Phe	Ser 15	Ser
Val	Thr	Ile	Thr 20	Leu	Met	Lys	Asn 25	Ile	Ser	Tyr	Lys	Lys 30	Arg	Lys	Ala
Asp	Met	Met 35	Thr	Ala	Arg	Trp	Gln 40	Gly	Thr	Ile	Ala	Leu 45	Leu	Leu	Leu
Ile	Ile 50	Ile	Ser	Tyr	Val	Asp 55	Arg	Val	Asn	Ile	Ser 60	Val	Met	Ile	Leu
Asn 65	Pro	Glu	Phe	Ala	Glu 70	His	Phe	Gln	Leu	Asn 75	Glu	Asn	Arg	Met	Leu 80
Gln	Gly	Met	Leu 85	Thr	Cys	Phe	Leu	Leu 90	Gly	Tyr	Gly	Phe	Ser 95	Ala	Ala
Leu	Leu	Leu	Thr 100	Pro	Val	Ile	Glu	Ser 105	Lys	Leu	His	Tyr	Arg	Gln	Gly
Leu	Leu	Ser 115	Ser	Ile	Ala	Ile	Trp 120	Ala	Ala	Val	Cys	Ala 125	Val	Ser	Pro
Leu	Leu	Gly 130	Ser	Leu	Thr	Gly 135	Met	Leu	Ile	Ala	Arg 140	Val	Ile	Leu	Gly
Ile 145	Ala	Glu	Gly	Pro	Leu 150	Phe	Ser	Leu	Lys	Thr 155	Arg	Phe	Ile	Ser	Asp 160
Asn	Phe	Ser	Ala 165	Gln	Glu	Ile	Gly	Lys 170	Pro	Asn	Ala	Val	Thr 175	Ala	Leu
Gly	Val	Ser	Leu 180	Gly	Leu	Ala	Val 185	Gly	Phe	Pro	Leu	Val	Thr 190	Trp	Leu
Met	Ser	His 195	Leu	Gly	Trp	Ala	Gly 200	Ser	Phe	Tyr	Thr	Leu 205	Ala	Ala	Ile
Asn 210	Leu	Leu	Leu	Gly	Gly	Ser 215	Leu	Ile	Trp	Arg	Phe 220	Leu	Pro	Ala	Pro
Arg 225	Lys	Leu	Pro	Thr 230	Ala	Lys	Lys	Pro	Gly	Phe 235	Val	His	Thr	Phe	Thr 240
Leu	Ala	Trp	Gln 245	Pro	Leu	Leu	Gly 250	Trp	Ile	Met	Val	Val	Glu 255	Ile	Ile
Ala	Thr	Leu	Ser 260	Tyr	Leu	Trp	Gly 265	Ser	Ser	Ala	Trp	Leu 270	Pro	Ala	Trp
Leu	Arg	Asp 275	Glu	His	His	Phe	Ser 280	Leu	His	Ala	Thr	Gly 285	Trp	Leu	Ala
Ala 290	Ile	Pro	Phe	Leu	Leu	Ser 295	Leu	Gly	Ser	Lys	Phe 300	Leu	Gly	Gly	Val
Leu 305	Leu	Asp	Lys	Met	Arg 310	Pro	Glu	Gln	Ala	Pro 315	Met	Leu	Phe	Val	Val 320
Gly	Gly	Ala	Met 325	Ala	Leu	Ser	Val 330	Val	Ala	Leu	Met	Leu	Ser 335	His	His
Gln	Pro	Ala	Trp 340	Leu	Ala	Leu	Phe 345	Met	Leu	Ser	Ala	Asn 350	Val	Phe	Trp
Gly	Leu	Gln 355	Gly	Ala	Ala	Ile	Pro 360	Ala	Val	Ile	Gln	His 365	His	Ala	Ala
Arg	Glu 370	Ala	Val	Gly	Ser	Ala 375	Tyr	Gly	Ile	Ile	Asn 380	Gly	Ile	Gly	Asn
Ile	Cys	Ala	Ala	Phe	Ile	Pro	Leu	Leu	Met	Gly	Met	Val	Met	Arg	Ser

```
<210> 9872
<211> 232
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9873
<211> 475
<212> PRT
<213> Enterobacter cloacae
```

<400> 9873															
Lys	Leu	Ile	Thr	Gln	Leu	Glu	Gly	Ile	Met	Pro	Asp	Asn	Asn	Lys	Gln
1				5					10					15	
Gly	Arg	Thr	Ser	Asn	Lys	Ala	Met	Thr	Phe	Val	Cys	Phe	Leu	Ala	
			20					25					30		
Ala	Leu	Ala	Gly	Leu	Leu	Phe	Gly	Leu	Asp	Ile	Gly	Val	Ile	Ala	Gly
		35					40					45			
Ala	Leu	Pro	Phe	Ile	Thr	Asp	Glu	Phe	Gln	Ile	Ser	Ala	His	Thr	Gln
		50				55					60				
Glu	Trp	Val	Val	Ser	Ser	Met	Met	Phe	Gly	Ala	Ala	Val	Gly	Ala	Val
65					70					75					80

Gly Ser Gly Trp Leu Ser Phe Lys Leu Gly Arg Lys Lys Ser Leu Met
 85 90 95
 Ile Gly Ala Ile Leu Phe Val Ala Gly Ser Leu Phe Ser Ala Ala Ala
 100 105 110
 Pro Asn Val Glu Val Leu Ile Ile Ser Arg Val Leu Leu Gly Leu Ala
 115 120 125
 Val Gly Val Ala Ser Tyr Thr Ala Pro Leu Tyr Leu Ser Glu Ile Ala
 130 135 140
 Pro Glu Lys Ile Arg Gly Ser Met Ile Ser Met Tyr Gln Leu Met Ile
 145 150 155 160
 Thr Ile Gly Ile Leu Gly Ala Tyr Leu Ser Asp Thr Ala Phe Ser Tyr
 165 170 175
 Ser Gly Ala Trp Arg Trp Met Leu Gly Val Ile Ile Ile Pro Ala Ile
 180 185 190
 Leu Leu Leu Ile Gly Val Phe Phe Leu Pro Asp Ser Pro Arg Trp Phe
 195 200 205
 Ala Ala Lys Arg Arg Phe His Asp Ala Glu Arg Val Leu Leu Arg Leu
 210 215 220
 Arg Asp Thr Ser Ala Glu Ala Lys Asn Glu Leu Glu Glu Ile Arg Glu
 225 230 235 240
 Ser Leu Lys Val Lys Gln Ser Gly Trp Ala Leu Phe Lys Glu Asn Ser
 245 250 255
 Asn Phe Arg Arg Ala Val Phe Leu Gly Val Leu Leu Gln Ile Met Gln
 260 265 270
 Gln Phe Thr Gly Met Asn Val Ile Met Tyr Tyr Ala Pro Lys Ile Phe
 275 280 285
 Glu Leu Ala Gly Tyr Thr Asn Thr Thr Glu Gln Met Trp Gly Thr Val
 290 295 300
 Ile Val Gly Leu Thr Asn Val Leu Ala Thr Phe Ile Ala Ile Gly Leu
 305 310 315 320
 Val Asp Arg Trp Gly Arg Lys Pro Thr Leu Thr Leu Gly Phe Leu Val
 325 330 335
 Met Ala Val Gly Met Gly Val Leu Gly Thr Met Met His Met Gly Ile
 340 345 350
 His Ser Pro Thr Ala Gln Tyr Phe Ala Val Ala Met Leu Leu Met Phe
 355 360 365
 Ile Ile Gly Phe Ala Met Ser Ala Gly Pro Leu Ile Trp Val Leu Cys
 370 375 380
 Ser Glu Ile Gln Pro Leu Lys Gly Arg Asp Phe Gly Ile Thr Cys Ser
 385 390 395 400
 Thr Ala Thr Asn Trp Ile Ala Asn Met Ile Val Gly Ala Thr Phe Leu
 405 410 415
 Thr Met Leu Asn Thr Leu Gly Asn Ala Asn Thr Phe Trp Val Tyr Ala
 420 425 430
 Gly Leu Asn Leu Phe Phe Ile Val Leu Thr Ile Trp Leu Val Pro Glu
 435 440 445
 Thr Lys His Val Ser Leu Glu His Ile Glu Arg Asn Leu Met Lys Gly
 450 455 460
 Arg Pro Leu Arg Glu Ile Gly Ala His Asp
 465 470 475

<210> 9874

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 9874

Tyr Ser Asp His Ala Trp Arg Cys Gly Ala Arg Val Met Ser Gly Thr
 1 5 10 15
 Leu Leu Ala Phe Asp Phe Gly Thr Lys Ser Ile Gly Val Ala Val Gly
 20 25 30

Gln Arg Ile Thr Gly Thr Ala Arg Pro Leu Thr Ala Leu Lys Ala Asn
 35 40 45
 Asp Gly Thr Pro Asp Trp Asn Leu Ile Glu Arg Leu Leu Lys Glu Trp
 50 55 60
 Gln Pro Asp Asp Val Ile Val Gly Leu Pro Leu Asn Met Asp Gly Thr
 65 70 75 80
 Glu Gln Pro Leu Thr Ala Arg Ala Arg Lys Phe Ala Asn Lys Ile His
 85 90 95
 Gly Arg Phe Gly Val Ser Val Lys Leu His Asp Glu Arg Leu Ser Thr
 100 105 110
 Val Glu Ala Arg Ala Gly Leu Phe Glu His Gly Gly Phe Arg Ala Leu
 115 120 125
 Asn Lys Gly Ser Val Asp Ser Ala Ser Ala Val Ile Ile Leu Glu Ser
 130 135 140
 Tyr Phe Asp Gln Gly Tyr
 145 150

<210> 9875

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 9875

Cys Pro Ala Val Ala Arg Phe Cys Leu Arg Gly Ser Gly Leu Pro Pro
 1 5 10 15
 Pro Thr Tyr Ser Pro Val Ala His Thr Ala Pro Arg Ala Arg Pro Gly
 20 25 30
 His Pro Asp Ala Ala Ser Ala Pro Glu Pro His Ala Gly Phe Pro Pro
 35 40 45
 Val Asp Tyr Ala Pro Asp Leu Ser Pro Ala Pro Glu Arg Tyr Arg Pro
 50 55 60
 Gly Ala Arg Ser Pro Ala Pro His Arg Ala Cys Ala Ala Trp Pro Thr
 65 70 75 80
 Pro Asp Gly Arg Phe Pro Pro Pro Ser Ala Pro Gly Val Ser Ser Arg
 85 90 95
 Cys Arg Ala Ala His Gln Ala Glu Ser His Pro Asp Leu His Ala Ala
 100 105 110
 Arg Cys Ala Gly Pro Arg Gln Arg Thr Gly Cys Ala Gly Leu Ser Pro
 115 120 125
 Ala Ala Gly Ser Gly Asn Val His Ser Gly Thr
 130 135 140

<210> 9876

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 9876

Thr Thr Pro Arg Lys Met Asn Asp Ile Ala His Asn Leu Ala Gln Val
 1 5 10 15
 Arg Asp Lys Ile Ser Ala Ala Ala Thr Arg Cys Gly Arg Ala Pro Glu
 20 25 30
 Glu Ile Thr Leu Leu Ala Val Ser Lys Thr Lys Pro Ala Ser Ala Ile
 35 40 45
 Ala Glu Ala Ile Ala Ala Gly His Arg Ala Phe Gly Glu Asn Tyr Val
 50 55 60
 Gln Glu Gly Val Asp Lys Ile Leu Ala Phe Arg Glu Arg Gly Asn Ala
 65 70 75 80
 Asp Leu Gln Trp His Phe Ile Gly Pro Leu Gln Ser Asn Lys Ser Arg
 85 90 95
 Leu Val Ala Glu His Phe Asp Trp Cys His Thr Ile Asp Arg Leu Arg

```

      100              105              110
Ile Ala Thr Arg Leu Ser Asp Gln Arg Pro Ile Glu Ile Pro Ala Leu
      115              120              125
Asn Val Leu Ile Gln Ile Asn Ile Ser Asp Glu Asn Ser Lys Ser Gly
      130              135              140
Ile Thr Leu Ser Glu Leu Asp Ala Leu Ala Ala Asp Val Ala Ala Leu
145              150              155              160
Pro Arg Leu Thr Leu Arg Gly Leu Met Ala Ile Pro Ala Pro Glu Ser
      165              170              175
Ser Tyr Glu Arg Gln Phe Ala Val Ala Gln Gln Met Ala Val Ala Phe
      180              185              190
Glu Ala Leu Lys Ala Arg Tyr Asp Thr Val Asp Thr Leu Ser Leu Gly
      195              200              205
Met Ser Asp Asp Met Glu Ala Ala Ile Ala Ala Gly Ser Thr Met Val
      210              215              220
Arg Ile Gly Thr Ala Ile Phe Gly Ala Arg Asp Tyr Pro Gln
225              230              235

```

<210> 9877

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 9877

```

Gly Asn Leu Arg Asn Ala Met Lys Thr Leu Thr Phe Leu Leu Ser Thr
1      5      10
Val Ile Glu Leu Tyr Thr Met Ala Leu Leu Arg Val Trp Met Gln
      20      25      30
Trp Ala Arg Cys Asp Phe Tyr Asn Pro Phe Ser Gln Phe Ile Val Lys
      35      40      45
Ile Thr Gln Pro Ile Val Gly Pro Leu Arg Arg Ile Ile Pro Ala Met
      50      55      60
Gly Pro Ile Asp Ser Ser Ser Leu Leu Met Ala Phe Ile Leu Ser Val
      65      70      75      80
Ile Lys Ala Ile Val Leu Phe Met Val Ile Thr Phe Gln Pro Ile Ile
      85      90      95
Trp Ile Ser Ala Val Leu Ile Leu Val Lys Thr Val Gly Ser Leu Ile
      100      105      110
Phe Trp Val Leu Leu Val Met Ala Ile Met Ser Trp Val Ser Arg Gly
      115      120      125
Arg Ser Pro Val Glu Tyr Ala Leu Ile Gln Leu Thr Glu Pro Leu Leu
      130      135      140
Arg Pro Ile Arg Ser Leu Leu Pro Ala Met Gly Gly Ile Asp Phe Ser
145              150              155              160
Pro Met Leu Leu Val Leu Leu Leu Tyr Val Leu Asn Met Gly Ile Ala
      165              170              175
Glu Leu Leu Gln Ala Thr Gly Asn Met Leu Leu Pro Gly Leu Trp Met
      180              185              190
Ala Leu
      195

```

<210> 9878

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 9878

```

Asn Cys Tyr Trp Lys His Cys Val Met Ala Asn Leu Pro Pro Leu Ser
1      5      10      15
Leu Tyr Ile His Ile Pro Trp Cys Val Gln Lys Cys Pro Tyr Cys Asp
      20      25      30

```

```

Phe Asn Ser His Ala Leu Lys Gly Glu Val Pro His Asp Asp Tyr Val
    35          40          45
Ala His Leu Leu Ala Asp Leu Asp Ala Asp Val Pro Tyr Ala Gln Gly
    50          55          60
Arg Glu Val Lys Thr Ile Phe Ile Gly Gly Gly Thr Pro Ser Leu Leu
    65          70          75          80
Ser Gly Pro Ala Met Gln Thr Leu Leu Asp Gly Val Arg Ala Arg Leu
           85          90          95
Asn Leu Ala Ala Asp Ala Glu Ile Thr Met Glu Ala Asn Pro Gly Thr
    100          105          110
Val Glu Ala Asp Arg Phe Val Glu Tyr Gln Arg Ala Gly Val Asn Arg
    115          120          125
Ile Ser Ile Gly Val Gln Ser Phe Ser Glu Pro Lys Leu Lys Arg Leu
    130          135          140
Gly Arg Ile His Gly Pro Glu Glu Ala Lys Arg Ala Ala Asn Leu Ala
    145          150          155          160
Thr Gly Leu Gly Leu Arg Ser Phe Asn Leu Asp Leu Met His Gly Leu
           165          170          175
Pro Asp Gln Ser Leu Glu Glu Ala Leu Asp Asp Leu Arg Gln Ala Ile
    180          185          190
Glu Leu Asn Pro Pro His Leu Ser Trp Tyr Gln Leu Thr Ile Glu Pro
    195          200          205
Asn Thr Leu Phe Gly Ser Arg Pro Pro Val Leu Pro Asp Asp Ala
    210          215          220
Leu Trp Asp Ile Phe Glu Gln Gly His Gln Leu Leu Thr Ala Ala Gly
    225          230          235          240
Tyr Gln Gln Tyr Glu Thr Ser Ala Tyr Ala Lys Pro Gly Tyr Gln Cys
           245          250          255
Gln His Asn Leu Asn Tyr Trp Arg Phe Gly Asp Tyr Leu Gly Ile Gly
    260          265          270
Cys Gly Ala His Gly Lys Val Thr Phe Pro Asp Gly Arg Ile Leu Arg
    275          280          285
Thr Ala Lys Thr Arg His Pro Arg Gly Tyr Met Glu Gly Arg Tyr Leu
    290          295          300
Glu Arg Gln His Asp Val Glu Ala Val Asp Lys Pro Phe Glu Phe Phe
    305          310          315          320
Met Asn Arg Phe Arg Leu Leu Glu Ala Ala Pro Arg Ala Glu Phe Thr
    325          330          335
Arg Tyr Thr Gly Leu Pro Glu Ser Val Ile Arg Pro Gln Ile Asp Glu
    340          345          350
Ala Leu Ala Gln Gly Tyr Leu Thr Glu Cys Asp Val Ser Trp Gln Ile
    355          360          365
Thr Glu His Gly Lys Leu Phe Leu Asn Ser Leu Leu Glu Leu Phe Leu
    370          375          380
Ala Glu Asn Pro Glu Gly
    385          390

```

<210> 9879

<211> 448

<212> PRT

<213> Enterobacter cloacae

<400> 9879

```

Arg Cys Gln Leu Ile Glu Leu His Gln Ile Thr Thr Leu Asn Val Pro
    1          5          10          15
Ile Thr Thr Tyr Leu Pro Leu Thr Cys Glu Glu Ser Asn Met Asn Leu
    20          25          30
Lys Leu Gln Leu Lys Ile Leu Ser Phe Leu Gln Phe Cys Leu Trp Gly
    35          40          45
Ser Trp Leu Thr Thr Leu Gly Ser Tyr Met Phe Val Thr Leu Lys Phe
    50          55          60

```

Asp Gly Ala Ser Ile Gly Ala Val Tyr Ser Ser Leu Gly Ile Ala Ala
 65 70 75 80
 Val Phe Met Pro Thr Leu Leu Gly Ile Val Ala Asp Lys Trp Leu Ser
 85 90 95
 Ala Lys Trp Leu Tyr Met Leu Cys His Leu Val Gly Ala Gly Thr Leu
 100 105 110
 Phe Met Ala Ala Glu Val Thr Thr Pro Gly Ala Met Phe Met Val Ile
 115 120 125
 Leu Leu Asn Ser Leu Ala Tyr Met Pro Thr Leu Gly Leu Ile Asn Thr
 130 135 140
 Ile Ser Tyr Tyr Arg Leu Lys Ser Ala Gly Leu Asp Ile Val Thr Asp
 145 150 155 160
 Phe Pro Pro Ile Arg Ile Trp Gly Thr' Ile Gly Phe Ile Met Ala Met
 165 170 175
 Trp Gly Val Ser Phe Ala Gly Phe Glu Leu Ser His Met Gln Leu Tyr
 180 185 190
 Ile Gly Ala Ala Leu Ser Val Leu Leu Ala Leu Phe Thr Leu Thr Leu
 195 200 205
 Pro Thr Ile Pro Val Ser Asn Gln Gln Lys Asn Gln Ser Trp Ser Thr
 210 215 220
 Met Leu Gly Leu Asp Ala Phe Ala Leu Phe Lys Asn Lys Arg Met Ala
 225 230 235 240
 Ile Phe Phe Ile Phe Ser Met Leu Leu Gly Ala Glu Leu Gln Ile Thr
 245 250 255
 Asn Met Phe Gly Asn Thr Phe Leu His Ser Phe Asp Asn Asp Pro Leu
 260 265 270
 Phe Ala Gly Ser Phe Ile Val Glu His Ala Ser Val Met Met Ser Ile
 275 280 285
 Ser Gln Ile Ser Glu Thr Leu Phe Ile Leu Thr Ile Pro Phe Phe Leu
 290 295 300
 Ser Arg Tyr Gly Ile Lys Asn Val Met Leu Ile Ser Ile Ala Ala Trp
 305 310 315 320
 Met Leu Arg Phe Gly Leu Phe Ala Tyr Gly Asp Pro Ser Ala Phe Gly
 325 330 335
 Thr Val Leu Leu Val Leu Ser Met Ile Val Tyr Gly Cys Ala Phe Asp
 340 345 350
 Phe Phe Asn Ile Ser Gly Ser Val Phe Val Glu Lys Glu Val Lys Pro
 355 360 365
 Glu Ile Arg Ala Ser Ala Gln Gly Met Phe Leu Met Met Thr Asn Gly
 370 375 380
 Phe Gly Cys Ile Leu Gly Gly Val Val Ser Gly Lys Val Val Glu Met
 385 390 395 400
 Tyr Thr Thr Asn Gly Ile Thr Asp Trp Gln Pro Val Trp Leu Ile Phe
 405 410 415
 Ala Gly Tyr Ser Leu Val Leu Phe Phe Ala Phe Ile Ala Leu Phe Lys
 420 425 430
 Tyr Lys His Val Arg Val Pro Asn Gly Ala Gln Pro Ile Ala His
 435 440 445

<210> 9880

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 9880

Leu Lys Ala Met Ser His Arg Leu Ala Val Gln Leu Lys Leu Pro Ile
 1 5 10 15
 Thr Pro His Ala Val Pro Phe Ser His Cys Leu Phe Pro Pro Arg Glu
 20 25 30
 Arg Pro Gly Thr Pro Tyr Arg Asn Trp Lys Ile Pro Thr Met Gln His
 35 40 45

Glu Leu Ile Asp Val Leu Ile Val Glu Asp Glu Asn Glu Leu Ala Gln
 50 55 60
 Leu His Ala Glu Leu Ile Gly Lys His Pro Arg Leu Arg Leu Val Gly
 65 70 75 80
 Ile Ala Ala Ser Leu Ala Asp Ala Gln Val Gln Leu Glu Ser Lys Gln
 85 90 95
 Pro Lys Leu Met Leu Leu Asp Asn Tyr Leu Pro Asp Gly Lys Gly Ile
 100 105 110
 Thr Leu Ile Ser Asn Pro Met Leu Thr Arg Ala Asn Cys Ser Val Ile
 115 120 125
 Phe Ile Thr Ala Ala Ser Asp Met Asp Thr Cys Ser Gln Ala Ile Arg
 130 135 140
 Asn Gly Ala Phe Asp Tyr Ile Leu Lys Pro Val Ser Trp Lys Arg Leu
 145 150 155 160
 Ser Gln Ser Leu Glu Arg Phe Val Gln Phe Ala Glu Gln Gln Arg Val
 165 170 175
 Trp Lys Ile Val Asp Gln Gln Asn Val Asp Ser Leu Tyr Gln Leu Gln
 180 185 190
 Ala Lys Asn Tyr Arg Leu Asp Asn Gly Ser Lys Gly Ile Glu Glu Asn
 195 200 205
 Thr Leu Ala Arg Val Gln Met Leu Phe Asn Asn Lys Ala Ala His Cys
 210 215 220
 Phe Thr Val Asp Glu Val Val Ser Glu Thr Gly Leu Ser Lys Thr Thr
 225 230 235 240
 Thr Arg Arg Tyr Leu Glu His Cys Val Glu Val Gly Phe Leu Thr Val
 245 250 255
 Glu Met Leu Tyr Gly Lys Ile Gly His Pro Arg Arg Met Tyr Arg Arg
 260 265 270
 Ser Ala Thr
 275

<210> 9881

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 9881

Cys Arg Pro Phe Ala Ala Pro Gly Ala Val Ser Glu Gly Ser Ala Val
 1 5 10 15
 Asn Gln Gln Glu Gly Gly Met Ser Ala Gln Pro Val Asp Leu Gln Ile
 20 25 30
 Phe Gly Arg Ser Leu Arg Val Asn Cys Pro Pro Glu Gln Arg Asp Ala
 35 40 45
 Leu Asn Gln Ala Ala Asp Asp Leu Asn Gln Arg Leu Gln Asp Leu Lys
 50 55 60
 Glu Arg Thr Arg Val Thr Asn Thr Glu Gln Leu Val Phe Ile Ala Ala
 65 70 75 80
 Leu Asn Ile Ser Tyr Glu Leu Thr Gln Glu Lys Ala Lys Thr Arg Asp
 85 90 95
 Tyr Ala Ala Ser Met Glu Gln Arg Ile Lys Met Leu Gln Gln Thr Ile
 100 105 110
 Glu Gln Ala Leu Leu Asp Gln Gly Arg Ser Pro Glu Arg Pro Gly Pro
 115 120 125
 Lys Phe Glu
 130

<210> 9882

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 9882

Asn Tyr Asp Asp Thr Phe Thr Leu Asn Gln Gly Phe Lys Gly Tyr Ser
 1 5 10 15
 Leu Arg Arg His Leu Gly Asp Ser Leu Ser Phe Leu Leu Pro Thr Thr
 20 25 30
 Met Thr Gln Phe Pro Glu Val Ser Ala Ser Arg Gln Asp Ile Arg Gln
 35 40 45
 Leu Ile Arg Gln Arg Arg Arg Ala Leu Ser Ala Glu Gln Gln Ala His
 50 55 60
 Phe Ala Gln Gln Ala Ala Ala Arg Met Met Ala Tyr Pro Pro Val Val
 65 70 75 80
 Met Ala Asn Thr Val Ala Leu Phe Leu Ser Phe Asp Gly Glu Leu Asp
 85 90 95
 Thr Gln Pro Leu Ile Asp Gln Leu Trp Arg Ala Gly Lys Lys Val Tyr
 100 105 110
 Leu Pro Val Leu His Pro Phe Ser Arg Gly Asn Leu Leu Phe Leu His
 115 120 125
 Tyr His Pro His Ser Glu Leu Val Val Asn Arg Leu Lys Ile Thr Glu
 130 135 140
 Pro Lys Leu Asp Val Arg Asp Val Leu Pro Leu Ser Glu Leu Asp Val
 145 150 155 160
 Leu Ile Thr Pro Leu Val Ala Phe Asp Glu Gln Gly Gln Arg Leu Gly
 165 170 175
 Met Gly Gly Gly Phe Tyr Asp Arg Thr Leu Gln Asn Trp Gln Gln Tyr
 180 185 190
 Gly Leu Gln Pro Val Gly Tyr Ala His Asp Cys Gln Gly Val Glu Val
 195 200 205
 Leu Pro Val Glu Lys Trp Asp Val Pro Leu Pro Ala Val Val Thr Pro
 210 215 220
 Ser Lys Thr Trp Thr Trp
 225 230

<210> 9883

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 9883

Phe Gln Gln Pro Arg His Gln Arg Gly Val Asn Thr Leu Val Asp Lys
 1 5 10 15
 Gln Pro Arg Pro Gly Asp Thr Arg Leu Pro Arg Arg Ala Glu Asn Ala
 20 25 30
 Val Ala Asp Pro Ala Arg Gly Leu Phe Asp Ile Gly Ile Leu Gln His
 35 40 45
 Asp Gly Arg Arg Phe Ala Ala Gln Phe Gln Arg Gly Arg Asp Gln Phe
 50 55 60
 Phe Arg Arg His Val Arg Gln Met Thr Ala Arg Gly Gly Ala Ala Gly
 65 70 75 80
 Lys Gly Asn Phe Pro His Ala Arg Met Thr Arg Gln Arg Ile Ala Asn
 85 90 95
 His Arg Ala Phe Ala Arg Gln Asp Thr Gln Gln Pro Gly Gly Gln Pro
 100 105 110
 Gly Leu Phe Lys Asn Pro Arg Gln Leu Gln Arg His Gln Arg Arg Gly
 115 120 125
 Phe Gly Gly Leu Glu Asp His Arg Val Pro Gly Gly Asn Arg Arg Cys
 130 135 140
 Asp Leu Leu His Phe Ala Gly Asn Arg Arg Val Pro Arg Arg Asp Gly
 145 150 155 160
 Arg His His Ala Lys Gly Leu Val Ala Ala Gln Arg Gln Gln Ile Arg
 165 170 175
 Leu Ala Arg Arg Arg Lys Phe Pro Phe Gln Gln Leu Ala Gly Gly Gly

```
<210> 9884
<211> 386
<212> PRT
<213> Enterobacter cloacae
```

<400> 9884																	
Asn	Met	Ala	Lys	His	Leu	Phe	Thr	Ser	Glu	Ser	Val	Ser	Glu	Gly	His		
1				5					10					15			
Pro	Asp	Lys	Ile	Ala	Asp	Gln	Ile	Ser	Asp	Ala	Val	Leu	Asp	Ala	Ile		
			20					25					30				
Leu	Ala	Gln	Asp	Pro	Lys	Ala	Arg	Val	Ala	Cys	Glu	Thr	Tyr	Val	Lys		
		35					40					45					
Thr	Gly	Met	Val	Leu	Val	Gly	Gly	Glu	Ile	Thr	Thr	Ser	Ala	Trp	Val		
	50					55					60						
Asp	Ile	Glu	Glu	Ile	Thr	Arg	Asn	Thr	Val	Arg	Glu	Ile	Gly	Tyr	Val		
65					70					75					80		
His	Ser	Asp	Met	Gly	Phe	Asp	Ala	Asn	Ser	Cys	Ala	Val	Leu	Ser	Ala		
				85					90					95			
Ile	Gly	Lys	Gln	Ser	Pro	Asp	Ile	Asn	Gln	Gly	Val	Asp	Arg	Ala	Asp		
			100					105					110				
Pro	Leu	Glu	Gln	Gly	Ala	Gly	Asp	Gln	Gly	Leu	Met		Gly	Tyr	Ala		
		115					120						125				
Thr	Asn	Glu	Thr	Asp	Val	Leu	Met	Pro	Ala	Pro	Val	Thr	Tyr	Ala	His		
	130					135					140						
Arg	Leu	Val	Gln	Arg	Gln	Ala	Glu	Val	Arg	Lys	Asn	Gly	Thr	Leu	Pro		
145					150					155				160			
Trp	Leu	Arg	Pro	Asp	Ala	Lys	Ser	Gln	Val	Thr	Phe	Gln	Tyr	Asp	Asp		
				165					170					175			
Gly	Lys	Ile	Val	Gly	Ile	Asp	Ala	Val	Val	Leu	Ser	Thr	Gln	His	Ala		
			180					185					190				
Glu	Glu	Ile	Asp	Gln	Lys	Ser	Leu	Gln	Glu	Ala	Val	Met	Glu	Glu	Ile		
		195					200					205					
Ile	Lys	Pro	Val	Leu	Pro	Thr	Glu	Trp	Leu	Ser	Ser	Ala	Thr	Lys	Phe		
	210					215						220					
Phe	Ile	Asn	Pro	Thr	Gly	Arg	Phe	Val	Ile	Gly	Gly	Pro	Met	Gly	Asp		
225					230					235					240		
Cys	Gly	Leu	Thr	Gly	Arg	Lys	Ile	Ile	Val	Asp	Thr	Tyr	Gly	Gly	Met		
				245					250					255			
Ala	Arg	His	Gly	Gly	Gly	Ala	Phe	Ser	Gly	Lys	Asp	Pro	Ser	Lys	Val		

260 265 270
 Asp Arg Ser Ala Ala Tyr Ala Ala Arg Tyr Val Ala Lys Asn Ile Val
 275 280 285
 Ala Ala Gly Leu Ala Asp Arg Cys Glu Ile Gln Val Ser Tyr Ala Ile
 290 295 300
 Gly Val Ala Glu Pro Thr Ser Ile Met Val Glu Thr Phe Gly Thr Glu
 305 310 315 320
 Lys Val Pro Ser Glu Gln Leu Thr Leu Leu Val Arg Glu Phe Phe Asp
 325 330 335
 Leu Arg Pro Tyr Gly Leu Ile Gln Met Leu Asp Leu Leu His Pro Ile
 340 345 350
 Tyr Gln Glu Thr Ala Ala Tyr Gly His Phe Gly Arg Glu His Phe Pro
 355 360 365
 Trp Glu Lys Thr Asp Lys Ala Leu Leu Arg Asp Ala Ala Gly Leu
 370 375 380
 Lys
 385

<210> 9885

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 9885

Ala His Thr Thr Asp Pro Pro Ala Gly Gly Ala Ser Cys Ala Ser Pro
 1 5 10 15
 Leu Pro Ala Leu Cys Ser Ala Pro Met Lys Ala Pro Arg Leu Pro Ile
 20 25 30
 Ala Ile Gln Gln Ala Val Met Arg Ser Leu Arg Glu Lys Leu Ala Gln
 35 40 45
 Ala Asn Leu Lys Leu Gly Arg Asn Tyr Pro Glu Pro Lys Leu Val Tyr
 50 55 60
 Gln Gln Arg Gly Thr Ala Ala Gly Thr Ala Trp Leu Glu Ser Tyr Glu
 65 70 75 80
 Ile Arg Leu Asn Pro Val Leu Met Met Glu Asn Gln Gln Ala Phe Ile
 85 90 95
 Glu Glu Val Val Pro His Glu Leu Ala His Leu Leu Val Trp Lys His
 100 105 110
 Phe Gly Arg Val Ala Pro His Gly Lys Glu Trp Lys Trp Met Met Glu
 115 120 125
 Ala Val Leu Gly Val Pro Ala Arg Arg Thr His Gln Phe Glu Leu Glu
 130 135 140
 Ser Val Arg Arg Asn Thr Phe Pro Tyr Arg Cys Gln Cys Gln Gln His
 145 150 155 160
 Gln Leu Thr Val Arg Arg His Asn Arg Val Val Arg Gly Glu Ala Thr
 165 170 175
 Tyr Arg Cys Val Lys Cys Gly Glu Pro Leu Val Ala Glu
 180 185 190

<210> 9886

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 9886

Asn Arg Ser Gly Ile Pro Asp Leu Asp His Arg Asn Ala Asp Gly Arg
 1 5 10 15
 Tyr Arg Lys Thr Phe Thr Glu Ile Thr Cys Asp Ser Ala Cys Val Tyr
 20 25 30
 Pro His Thr Gly Arg Cys Arg Phe Leu Asn Gln Glu Thr Val Pro Leu
 35 40 45

```

Thr Met Asn Leu Gln His His Phe Leu Ile Ala Met Pro Ala Leu Gln
 50          55          60
Asp Pro Ile Phe Arg Arg Ala Val Val Tyr Ile Cys Glu Tyr Asn Glu
65          70          75          80
Asp Gly Ala Met Gly Ile Ile Ile Asn Lys Pro Leu Glu Asn Leu Gln
      85          90          95
Val Glu Gly Ile Leu Asp Lys Leu Lys Ile Pro Ala Glu Ala Arg Leu
      100          105          110
Pro Glu Ile Arg Leu Asp Lys Pro Val Met Leu Gly Gly Pro Leu Ala
      115          120          125
Glu Asp Arg Gly Phe Ile Leu His Thr Pro Pro Val Phe Ser Ser Ser
      130          135          140
Ile Arg Ile Ser Asp Asn Thr Val Val Thr Thr Ser Arg Asp Val Leu
145          150          155          160
Glu Thr Leu Gly Thr Ala Ser Gln Pro Ser Glu Val Leu Val Ala Leu
      165          170          175
Gly Tyr Ala Ser Trp Glu Lys Gly Gln Leu Glu Gln Glu Ile Leu Asp
      180          185          190
Asn Ala Trp Leu Thr Ala Pro Ala Asp Met Asn Ile Leu Phe Lys Thr
      195          200          205
Pro Ile Ala Asp Arg Trp Arg Asp Ala Ala Lys Leu Ile Gly Ile Asp
      210          215          220
Ile Leu Thr Met Pro Gly Val Ala Gly His Ala
225          230          235

```

<210> 9887

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 9887

```

Leu Ser Ala Thr Ala Ile Ser Arg Ala Gly Gly Ser Arg Gly Ala Pro
1          5          10          15
Val Thr Ala Ile Thr Cys Arg Cys Asn Gly Leu Ala Ser Ala Arg Gln
      20          25          30
Arg Gly Met Ser Met Ala Arg Thr Ile Phe Cys Thr Phe Leu Gln Arg
      35          40          45
Asp Ala Glu Gly Gln Asp Phe Gln Leu Tyr Pro Gly Asp Leu Gly Lys
      50          55          60
Arg Ile Tyr Asn Glu Ile Ser Lys Glu Ala Trp Gly Gln Trp Gln Lys
65          70          75          80
Lys Gln Thr Met Leu Ile Asn Glu Lys Lys Leu Ser Met Met Asn Pro
      85          90          95
Glu His Arg Lys Leu Leu Glu Gln Glu Met Val Asn Phe Leu Phe Glu
      100          105          110
Gly Lys Asp Val His Ile Glu Gly Tyr Thr Pro Pro Glu Lys
      115          120          125

```

<210> 9888

<211> 463

<212> PRT

<213> Enterobacter cloacae

<400> 9888

```

Thr His Lys Ile Thr Lys Gly Leu Ile Met Ser Thr Thr Asp Asp Ser
1          5          10          15
Phe Ser Val Thr His Asp Pro Ile Asp Ile Gln Arg Pro Ser Leu Lys
      20          25          30
Glu Arg Trp Trp His Ile Met Asp Thr Trp Lys Ile Gly Ile Ile Pro
      35          40          45
Leu Pro Leu Phe Val Leu Ala Gly Ala Leu Ile Ala Ile Asp Cys Leu

```

```
<210> 9889
<211> 344
<212> PRT
<213> Enterobacter cloacae
```

<400> 9889
Gly Gly Ser Met Gln Ser Gln Pro Ile Asp Phe Arg His Thr Val Val
1 5 10 15
Ala Lys His Pro Glu Arg Leu Ser Gln Ile Arg Tyr Leu Leu Ala Asp

20 25 30
 Ser Gly Leu Gly Leu Asp Asn Asp Ile Thr Leu Phe Val Glu Ala Trp
 35 40 45
 Ser Gly Ala Gln Leu Val Gly Cys Ala Gly Leu Ala Ala Asn Val Ile
 50 55 60
 Lys Cys Val Ala Val Asn Glu Gln Leu Arg Gly Glu Asn Leu Ser Ala
 65 70 75 80
 Arg Leu Leu Ala Glu Val Glu Asn Ala Ala Leu Glu Arg Gly His Phe
 85 90 95
 His Leu Phe Leu Cys Thr Arg Pro Cys Asn Lys Glu Arg Phe Gly Arg
 100 105 110
 Ser Gly Phe Trp Pro Ile Ala Gln Ser Gly Asn Asn Ala Val Leu Met
 115 120 125
 Glu Asn Thr Pro Gln Gly Ile Ala Arg Tyr Cys Arg Thr Leu Ser Arg
 130 135 140
 Met Arg Arg Gly Gly Glu Lys Ile Gly Ala Ile Val Met Asn Ala Asn
 145 150 155 160
 Pro Phe Thr Leu Gly His Arg His Leu Val Glu Gln Ala Ala Ala Gln
 165 170 175
 Cys Asp Ala Leu His Leu Phe Val Val Arg Glu Asp Ala Ser Phe Phe
 180 185 190
 Pro Phe Ser Ala Arg Leu Glu Met Val Arg Ala Gly Val Ala His Leu
 195 200 205
 Pro Asn Val Val Val His Glu Gly Ser Gln Tyr Ile Ile Ser Arg Ala
 210 215 220
 Thr Phe Pro Ala Tyr Phe Leu Lys Glu Thr Gly Lys Val Gln Gln Ala
 225 230 235 240
 Trp Ser Glu Ile Asp Val Leu Ile Phe Arg Asp Phe Ile Ala Pro Ala
 245 250 255
 Leu Gly Ile Thr His Arg Phe Ile Gly Ser Glu Pro Phe Cys Asp Ile
 260 265 270
 Thr Arg Gln Tyr Asn Gln Thr Leu His Asp Leu Leu Ala Ser His Ile
 275 280 285
 Asp Val Val Glu Met Pro Arg Ile Lys Ala Thr Gly Asn Ala Ile Ser
 290 295 300
 Ala Ser Glu Val Arg Arg Leu Leu Lys Thr Gln Gln Phe Ser Arg Ile
 305 310 315 320
 Arg Glu Ile Val Pro Asp Ser Thr Phe Ala His Leu Glu Ala His Tyr
 325 330 335
 Arg Ala Ser Ala Glu Val Ala
 340

<210> 9890

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 9890

Thr Gly His Gln Leu Gly Gly Ala Glu Met Ser Lys Leu Arg Arg Ser
 1 5 10 15
 Met Leu Phe Leu Pro Gly Ala Asn Ala Ala Met Leu Ser Thr Ala Phe
 20 25 30
 Ile Tyr Arg Pro Asp Ser Ile Met Phe Asp Leu Glu Asp Ala Val Ala
 35 40 45
 Leu Arg Glu Lys Asp Thr Ala Arg Met Leu Val Phe His Ala Leu Gln
 50 55 60
 His Pro Met Tyr Gln Asp Ile Glu Thr Val Val Arg Ile Asn Pro Leu
 65 70 75 80
 Ser Thr Pro Phe Gly Leu Leu Asp Leu Glu Ala Ala Val Arg Ala Gly
 85 90 95
 Val Asp Val Ile Arg Leu Pro Lys Thr Asp Thr Pro Asp Asp Ile Tyr

```
<210> 9891
<211> 207
<212> PRT
<213> Enterobacter cloacae
```

<210> 9892
<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 9892

```

Leu Trp Ile Met Pro Val Ser Arg Thr Phe Ser Gln Ala Asp Asn Ser
1      5      10      15
Phe Met Lys Asn Asp Val Ile Ser Pro Glu Phe Asp Glu Asn Gly Arg
20      25      30
Pro Leu Arg Arg Ile Arg Ser Phe Val Arg Arg Gln Gly Arg Leu Thr
35      40      45
Lys Gly Gln Gln His Ala Leu Asp Asn Tyr Trp Pro Val Met Gly Val
50      55      60
Glu Phe Ser Glu Gln Pro Leu Asp Phe Thr Asp Leu Phe Gly Arg Asp
65      70      75      80
Ala Pro Val Thr Leu Glu Ile Gly Phe Gly Met Gly Thr Ser Leu Val
85      90      95
Thr Met Ala Lys Ala Arg Pro Glu Gln Asn Phe Leu Gly Ile Glu Val
100     105
His Ser Pro Gly Val Gly Ala Cys Leu Ala Thr Ala His Glu Glu Gly
115     120     125
Val Glu Asn Leu Arg Val Met Cys His Asp Ala Val Glu Val Leu His
130     135     140
Lys Met Ile Pro Asp Asn Ser Leu Asn Met Val Gln Leu Phe Phe Pro
145     150     155     160
Asp Pro Trp His Lys Ala Arg His Asn Lys Arg Arg Ile Val Gln Ala
165     170     175
Pro Phe Ala Glu Leu Val Lys Ser Lys Leu Lys Leu Gly Gly Val Phe
180     185     190
His Met Ala Thr Asp Trp Glu Pro Tyr Ala Glu His Met Leu Glu Val
195     200     205
Met Ser Ser Leu Asp Gly Tyr Lys Asn Gln Ser Glu Ser Asn Asp Tyr
210     215     220
Val Pro Arg Pro Asp Ser Arg Pro Val Thr Lys Phe Glu Gln Arg Gly
225     230     235     240
His Arg Leu Gly His Gly Val Trp Asp Leu Met Phe Glu Arg Val Lys
245     250     255

```

<210> 9893

<211> 666

<212> PRT

<213> Enterobacter cloacae

<400> 9893

```

Tyr Lys Glu Leu Arg Phe Ala Met Ser Asp Asp Met Ser Ser Leu Ser
1      5      10      15
Pro Ser Ser Ala Gly Glu Gln Gly Val Leu Arg Ser Met Gln Glu Val
20      25      30
Ala Met Ser Ser Gln Glu Ala Ser Lys Met Leu Arg Thr Tyr Asn Ile
35      40      45
Ala Trp Trp Gly Asn Asn Tyr Tyr Asp Val Asn Glu Leu Gly His Ile
50      55      60
Ser Val Cys Pro Asp Pro Asp Val Pro Glu Ala Arg Val Asp Leu Ala
65      70      75      80
Lys Leu Val Lys Thr Arg Glu Ala Gln Gly Gln Arg Leu Pro Ala Leu
85      90      95
Phe Cys Phe Pro Gln Ile Leu Gln His Arg Leu Arg Ser Ile Asn Ala
100     105     110
Ala Phe Lys Arg Ala Arg Glu Ser Tyr Gly Tyr Asn Gly Asp Tyr Phe
115     120     125

```


Leu	Val	Tyr	Pro	Ile	Lys	Val	Asn	Gln	His	Arg	Arg	Val	Ile	Glu	Ser
130						135					140				
Leu	Ile	His	Ser	Gly	Glu	Pro	Leu	Gly	Leu	Glu	Ala	Gly	Ser	Lys	Ala
145					150					155					160
Glu	Leu	Met	Ala	Val	Leu	Ala	His	Ala	Gly	Met	Thr	Arg	Ser	Val	Ile
				165					170					175	
Val	Cys	Asn	Gly	Tyr	Lys	Asp	Arg	Glu	Tyr	Ile	Arg	Leu	Ala	Leu	Ile
			180					185					190		
Gly	Glu	Lys	Met	Gly	His	Lys	Val	Tyr	Leu	Val	Ile	Glu	Lys	Met	Thr
		195					200					205			
Glu	Ile	Ala	Ile	Val	Leu	Glu	Glu	Ala	Glu	Arg	Leu	Asn	Val	Ile	Pro
	210					215					220				
Arg	Leu	Gly	Val	Arg	Ala	Arg	Leu	Ala	Ser	Gln	Gly	Ser	Gly	Lys	Trp
225					230					235					240
Gln	Ser	Ser	Gly	Gly	Glu	Lys	Ser	Lys	Phe	Gly	Leu	Ala	Ala	Asn	Gln
			245						250					255	
Val	Leu	Gln	Leu	Val	Glu	Ile	Leu	Arg	Glu	Arg	Gly	Arg	Leu	Asp	Ser
			260					265					270		
Ile	Gln	Leu	Leu	His	Phe	His	Leu	Gly	Ser	Gln	Met	Ala	Asn	Ile	Arg
		275					280					285			
Asp	Ile	Ala	Thr	Gly	Val	Arg	Glu	Ser	Ala	Arg	Phe	Tyr	Val	Glu	Leu
	290					295					300				
His	Lys	Leu	Gly	Val	Asn	Ile	Gln	Cys	Phe	Asp	Val	Gly	Gly	Gly	Leu
305					310					315					320
Gly	Val	Asp	Tyr	Glu	Gly	Thr	Arg	Ser	Gln	Ser	Asp	Cys	Ser	Val	Asn
			325						330					335	
Tyr	Gly	Leu	Asn	Glu	Tyr	Ala	Asn	Asn	Ile	Ile	Trp	Ala	Ile	Gly	Asp
			340				345						350		
Ala	Cys	Glu	Glu	His	Gly	Leu	Pro	His	Pro	Thr	Val	Ile	Thr	Glu	Ser
		355					360					365			
Gly	Arg	Ala	Val	Thr	Ala	His	His	Thr	Val	Leu	Val	Ser	Asn	Ile	Ile
	370				375						380				
Gly	Val	Glu	Arg	Ser	Glu	Ile	Thr	Glu	Ala	Thr	Pro	Pro	Ala	Asp	Asp
385					390					395					400
Ala	Pro	Arg	Ser	Leu	Gln	Ser	Met	Trp	Glu	Thr	Trp	Gln	Glu	Met	His
			405						410					415	
Glu	Pro	Gly	Thr	Arg	Arg	Ser	Leu	Arg	Glu	Trp	Leu	His	Asp	Ser	Gln
			420					425					430		
Met	Asp	Leu	His	Asp	Ile	His	Val	Gly	Tyr	Ser	Ser	Gly	Thr	Phe	Ser
		435					440					445			
Leu	Gln	Glu	Arg	Ala	Trp	Ala	Glu	Gln	Leu	Tyr	Leu	Asn	Met	Cys	His
		450				455					460				
Glu	Val	Gln	Lys	Gln	Leu	Asp	Pro	Ser	Asn	Arg	Ala	His	Arg	Pro	Ile
465					470					475					480
Ile	Asp	Glu	Leu	Gln	Glu	Arg	Met	Ala	Asp	Lys	Met	Tyr	Val	Asn	Phe
				485					490					495	
Ser	Leu	Phe	Gln	Ser	Met	Pro	Asp	Ala	Trp	Gly	Ile	Asp	Gln	Leu	Phe
			500					505					510		
Pro	Val	Leu	Pro	Leu	Glu	Gly	Leu	Asn	His	Ala	Pro	Glu	Arg	Arg	Ala
		515					520					525			
Val	Leu	Leu	Asp	Ile	Thr	Cys	Asp	Ser	Asp	Gly	Ala	Ile	Asp	His	Tyr
		530				535					540				
Val	Asp	Gly	Asp	Gly	Ile	Ala	Thr	Thr	Met	Pro	Met	Pro	Glu	Tyr	Asp
545					550					555					560
Pro	Glu	Asn	Pro	Pro	Met	Leu	Gly	Phe	Phe	Met	Val	Gly	Ala	Tyr	Gln
			565						570					575	
Glu	Ile	Leu	Gly	Asn	Met	His	Asn	Leu	Phe	Gly	Asp	Thr	Glu	Ala	Val
			580					585					590		
Asp	Val	Phe	Val	Phe	Pro	Asp	Gly	Ser	Val	Glu	Val	Glu	Leu	Ser	Asp
		595					600					605			
Glu	Gly	Asp	Thr	Val	Ala	Asp	Met	Leu	Glu	Tyr	Val	Gln	Leu	Asp	Pro

```
<210> 9894
<211> 146
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9895
<211> 372
<212> PRT
<213> Enterobacter cloacae
```

<400> 9895																
Thr	Arg	Cys	Ala	Cys	Thr	Thr	Ser	Arg	Ala	Ser	Arg	Gly	Ala	Thr	Pro	
1				5					10					15		
Ala	Ser	Gly	His	Ser	Tyr	Arg	Leu	Thr	Ala	Thr	Glu	Gly	Asn	Ala	Met	
			20					25					30			
Thr	Thr	Thr	Val	Gln	His	Tyr	Leu	Asp	Lys	Gly	Leu	Arg	Gly	Leu	Trp	
			35				40					45				
Tyr	Pro	Val	Leu	Ala	Ser	Trp	Glu	Val	Gln	Ser	Ala	Pro	Val	Gly	Ile	
	50					55				60						
Thr	Arg	Leu	Gly	Glu	Gln	Ile	Val	Val	Trp	Arg	Asn	Lys	Asp	Gly	Gln	
65					70					75					80	
Val	Gln	Ala	Leu	Glu	Asp	Arg	Cys	Pro	His	Arg	Gly	Ala	Arg	Leu	Ser	
			85						90					95		
Met	Gly	Trp	Asn	Leu	Gly	Asp	Arg	Ile	Ala	Cys	Trp	Tyr	His	Gly	Val	
			100					105					110			
Glu	Val	Ala	Gly	Asn	Gly	Glu	Val	Lys	Asp	Val	Pro	Ala	Val	Asp	Lys	
		115					120					125				
Cys	Pro	Leu	Val	Gly	Gln	Gln	Cys	Val	Arg	Ser	Tyr	Ser	Val	Gln	Glu	
	130					135					140					
Ala	His	Gly	Ala	Ile	Phe	Leu	Trp	Phe	Gly	Val	Thr	Ala	Asp	Gln	Gln	
145					150					155					160	

```
<210> 9896
<211> 184
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

<210> 9897

<211> 260
 <212> PRT
 <213> Enterobacter cloacae

<400> 9897

Gly Gly Met Met Thr Gly Phe Arg Glu Gln Gly Ser Gly Ile Pro Leu
 1 5 10 15
 Met Leu Leu His Gly Ile Ser Ser Gly Ala Ala Ser Trp His Lys Gln
 20 25 30
 Met Ala Leu Asn Gly Phe Arg Val Leu Ala Trp Asp Met Pro Gly Tyr
 35 40 45
 Gly Glu Ser Pro Met Leu Ala Val Ala Arg Ala Asn Ala Gly Asp Tyr
 50 55 60
 Ala Asp Ala Leu Ala Ala Met Leu Asp Arg Ala Gly Val Trp Gln Ala
 65 70 75 80
 Val Leu Val Gly His Ser Leu Gly Ala Leu Val Ala Ser Ala Phe Ala
 85 90 95
 Ala Lys Phe Pro Asp Arg Val Ile His Leu Val Leu Ala Asp Ala Ala
 100 105 110
 Gln Gly Tyr Gly Asn Ala Ala Pro Glu Gln Arg Glu Gln Val Trp Arg
 115 120 125
 Asn Arg Glu Gln Gln Met Ala Leu Gly Gly Glu Ile Leu Ala Gln Thr
 130 135 140
 Arg Ala Pro Lys Leu Leu Arg Pro Gly Ala Arg Ala Glu Asp Ile Ala
 145 150 155 160
 Thr Val Ala Ala Gly Met Arg Val Leu Arg Pro Glu Gly Tyr Leu Ala
 165 170 175
 Ala Ser Trp Met Leu Ala His Asp Asp Ile His Gly Trp Leu Lys Arg
 180 185 190
 Tyr Ser Gly Ser Phe Glu Val Trp Cys Gly Glu Gln Asp Ala Ile Thr
 195 200 205
 Gln Pro Glu Leu Val Gln Gly Leu Ala Leu Arg Tyr Gly Met Pro Phe
 210 215 220
 Ile Ala Ile Pro Gln Ala Gly His Ala Ser Tyr Leu Asp Asn Asp Ala
 225 230 235 240
 Phe Phe Asn Gln Gln Leu Leu Arg Ile Asn Glu Glu Val Arg Asp Glu
 245 250 255
 Cys Thr Asn
 260

<210> 9898
 <211> 395
 <212> PRT
 <213> Enterobacter cloacae

<400> 9898

Glu Ser Thr Arg Gly Phe Thr Met Ser Val Ile Lys Met Thr Asp Leu
 1 5 10 15
 Asp Leu Ala Gly Lys Arg Val Phe Ile Arg Ala Asp Leu Asn Val Pro
 20 25 30
 Val Lys Asp Gly Lys Val Thr Ser Asp Ala Arg Ile Arg Ala Ser Leu
 35 40 45
 Pro Thr Ile Glu Leu Ala Leu Lys Gln Gly Ala Lys Val Met Val Thr
 50 55 60
 Ser His Leu Gly Arg Pro Thr Glu Gly Glu Tyr Asn Glu Glu Phe Ser
 65 70 75 80
 Leu Leu Pro Val Val Asn Tyr Leu Lys Asp Lys Leu Ser Ser Pro Val
 85 90 95
 Arg Leu Val Lys Asp Tyr Leu Asp Gly Val Glu Val Ala Glu Gly Glu
 100 105 110
 Leu Val Val Leu Glu Asn Val Arg Phe Asn Lys Gly Glu Lys Lys Asp

```

      115              120              125
Asp Glu Thr Leu Ser Lys Lys Tyr Ala Ala Leu Cys Asp Val Phe Val
   130              135              140
Met Asp Ala Phe Gly Thr Ala His Arg Ala Gln Ala Ser Thr His Gly
   145              150              155              160
Ile Gly Lys Phe Ala Asp Val Ala Cys Ala Gly Pro Leu Leu Ala Asp
      165              170              175
Glu Leu Glu Ala Leu Gly Lys Ala Leu Lys Glu Pro Ala Arg Pro Met
      180              185              190
Val Ala Ile Val Gly Gly Ser Lys Val Ser Thr Lys Leu Thr Val Leu
   195              200              205
Asp Ser Leu Ser Lys Ile Ala Asp Gln Leu Ile Val Gly Gly Gly Ile
   210              215              220
Ala Asn Thr Phe Val Ala Ala Gln Gly His Asn Val Gly Lys Ser Leu
   225              230              235              240
Tyr Glu Ala Asp Leu Val Asp Glu Ala Lys Arg Leu Leu Gly Thr Cys
      245              250              255
Asp Ile Pro Val Pro Thr Asp Val Arg Val Ala Thr Glu Phe Ser Glu
      260              265              270
Thr Ala Thr Ala Thr Leu Lys Ser Val Asn Asp Ile Lys Asp Glu Glu
   275              280              285
Gln Ile Leu Asp Leu Gly Asp Val Ser Ala Gln Lys Leu Ala Glu Ile
   290              295              300
Leu Lys Asn Ala Lys Thr Ile Leu Trp Asn Gly Pro Val Gly Val Phe
   305              310              315              320
Glu Phe Pro Asn Phe Arg Lys Gly Thr Glu Ile Val Ala Asn Ala Ile
      325              330              335
Ala Asp Ser Glu Ala Phe Ser Ile Ala Gly Gly Gly Asp Thr Leu Ala
      340              345              350
Ala Ile Asp Leu Phe Gly Ile Ala Asp Lys Ile Ser Tyr Ile Ser Thr
   355              360              365
Gly Gly Gly Ala Phe Leu Glu Phe Val Glu Gly Lys Val Leu Pro Ala
   370              375              380
Val Ala Met Leu Glu Glu Arg Ala Lys Lys
   385              390              395

```

<210> 9899

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 9899

```

Met Glu Gln Leu Asp Val Val Asp Ser Ile Asn Asn Ala Gly Asn Trp
 1      5      10      15
Leu Val Arg Asn Gln Ala Leu Leu Leu Ser Tyr Ala Val Asn Ile Val
   20      25      30
Ala Ala Ile Ala Ile Ile Val Gly Met Ile Val Ala Arg Ile Val
   35      40      45
Ser Asn Ala Val Asn Arg Val Met Val Ala Arg His Ile Asp Ala Thr
   50      55      60
Val Ala Asp Phe Leu Ser Ala Leu Val Arg Tyr Gly Ile Ile Ala Phe
   65      70      75      80
Thr Leu Ile Ala Ala Leu Gly Arg Val Gly Val Gln Thr Ala Ser Val
      85      90      95
Ile Ala Val Leu Gly Ala Ala Gly Leu Ala Ile Gly Leu Ala Leu Gln
   100      105      110
Gly Ser Leu Ser Asn Leu Ala Ala Gly Val Leu Leu Val Thr Phe Arg
   115      120      125
Pro Phe Arg Ser Gly Glu Tyr Val Asp Leu Gly Gly Ile Ala Gly Thr
   130      135      140
Val Leu Gln Val Gln Ile Phe Ser Thr Thr Leu Arg Thr Val Asp Gly

```

```

145          150          155          160
Arg Ile Val Val Val Pro Asn Gly Lys Ile Ile Ala Gly Asn Ile Ile
          165          170          175
Asn Phe Ser Arg Glu Pro Val Arg Arg Asn Glu Leu Ile Ile Ser Val
          180          185          190
Ala Tyr Asp Ser Asp Ile Asp Gln Val Lys Ser Leu Ile Thr Asn Ile
          195          200          205
Ile Ala Ser Asp Asp Arg Ile Leu Lys Asp Arg Glu Gln Thr Val Arg
          210          215          220
Leu Asn Glu Leu Gly Ala Ser Ser Ile Asn Phe Val Val Arg Ile Trp
225          230          235          240
Ser Lys Ser Ser Asp Leu Gln Asn Val Tyr Trp Asp Val Leu Glu Arg
          245          250          255
Ile Lys Arg Asp Phe Asp Ala Asn Gly Ile Ser Phe Pro Tyr Pro Gln
          260          265          270
Met Asp Val Asn Val Lys Lys Val Lys Glu Ala Glu
          275          280          285

```

<210> 9900

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 9900

```

Ala Leu Leu Thr Gly His Ser Ser Gln His Gly Gly Met Thr Val Lys
1          5          10          15
Phe Lys Val Met Ala Leu Ala Ala Leu Val Ser Leu Gly Ala Val Ser
          20          25          30
Val Gln Ala Asn Glu Leu Pro Asn Gly Pro His Ile Val Thr Ser Gly
          35          40          45
Thr Ala Ser Val Asp Ala Val Pro Asp Val Ala Thr Leu Ala Ile Glu
          50          55          60
Val Asn Val Ala Ala Lys Asp Ala Ala Ser Ala Lys Lys Gln Ala Asp
65          70          75          80
Asp Arg Val Ala Gln Tyr Leu Ser Phe Leu Glu Gln Asn Gly Val Ala
          85          90          95
Lys Lys Asp Ile Ser Ser Ala Asn Leu Arg Thr Gln Pro Asp Tyr Asp
          100          105          110
Tyr Gln Asn Gly Lys Ser Ile Leu Lys Gly Tyr Arg Ala Val Arg Thr
          115          120          125
Val Glu Val Thr Val Arg Gln Leu Asp Lys Leu Asn Gly Leu Leu Asp
          130          135          140
Gly Ala Leu Lys Ala Gly Leu Asn Glu Ile Arg Ser Val Ser Leu Gly
145          150          155          160
Val Ala Gln Pro Glu Lys Tyr Lys Asp Glu Ala Arg Lys Ala Ala Ile
          165          170          175
Asp Asp Ala Ile His Gln Ala Gln Gln Leu Ala Ser Gly Phe Lys Ser
          180          185          190
Lys Leu Gly Pro Val Tyr Ser Val Arg Tyr His Val Ser Asn Tyr Gln
          195          200          205
Pro Ser Pro Met Val Arg Met Met Lys Ala Asp Ala Ala Pro Val Ser
          210          215          220
Ala Gln Glu Thr Tyr Glu Gln Pro Thr Ile Gln Phe Asp Asp Gln Val
225          230          235          240
Asp Val Val Phe Gln Leu Glu Pro Thr Gln Thr Gln Gln Thr Glu Ala
          245          250          255
Ala Lys Ala Gln
          260

```

<210> 9901

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 9901

Arg	Met	Arg	Met	Ser	Ile	Gln	Asn	Glu	Met	Pro	Gly	Tyr	Lys	Asp	Leu
1				5					10					15	
Asn	Gln	Leu	Leu	Asn	Gln	Gln	Gly	Val	Gly	Leu	Thr	Pro	Ala	Glu	Met
		20						25					30		
His	Gly	Leu	Ile	Ser	Gly	Ile	Leu	Cys	Gly	Gly	Asn	Ser	Asp	Ser	Ser
	35						40					45			
Trp	Gln	Pro	Leu	Ile	His	Asp	Leu	Thr	Asn	Glu	Arg	Leu	Ala	Phe	Gly
	50					55					60				
His	Glu	Leu	Ala	Glu	Ala	Leu	Arg	Lys	Met	His	Ala	Ala	Thr	Ser	Asp
65					70					75				80	
Ser	Leu	Glu	Asp	Asp	Gly	Phe	Leu	Phe	Gln	Leu	Tyr	Leu	Pro	Glu	Gly
			85					90					95		
Asp	Asp	Val	Ser	Val	Phe	Asp	Arg	Ala	Asp	Ala	Leu	Ala	Gly	Trp	Val
		100						105					110		
Asn	His	Tyr	Leu	Leu	Gly	Leu	Gly	Val	Thr	Gln	Pro	Lys	Leu	Glu	
		115					120						125		

<210> 9902

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 9902

Ser	Ser	Gly	Thr	Leu	Ser	Pro	Arg	Arg	Trp	Ala	Ser	Leu	Thr	Ala	Ser
1				5					10					15	
Ser	Ala	Arg	Ser	Arg	Ser	Ala	Ile	Ser	Pro	Ala	Ser	Thr	Thr	Arg	Arg
		20						25					30		
Cys	Thr	Thr	Cys	Trp	Pro	Arg	Ile	Leu	Thr	Trp	Trp	Arg	Cys	Arg	Ala
		35					40					45			
Ser	Arg	Pro	Pro	Ala	Thr	Pro	Phe	Arg	Pro	Arg	Lys	Cys	Ala	Val	Tyr
	50					55					60				
Ser	Arg	His	Ser	Ser	Phe	Pro	Gly	Ser	Gly	Arg	Leu	Ser	Arg	Thr	Pro
65					70					75				80	
Pro	Ser	Arg	Thr	Ser	Lys	His	Ile	Ile	Val	Arg	Val	Arg	Lys	Ser	His
			85					90					95		
Asn	Tyr	Gln	Glu	Phe	Ile	Met	Asn	Ile	Val	Arg	Glu	Ala	Leu	Ala	Gly
		100						105					110		
Thr	Gln	Glu	Ser	Ser	Asp	Leu	Met	Val	Lys	Ile	Ala	Pro	Ala	His	Gly
		115					120					125			
Glu	Leu	Glu	Ile	Val	Ile	His	Ser	Glu	Val	Ile	Lys	Gln	Phe	Gly	Glu
	130					135					140				
Gln	Ile	Arg	Gln	Val	Val	Asn	Asp	Thr	Leu	Arg	Ala	Met	Asn	Val	His
145					150					155				160	
Gln	Gly	Leu	Ile	Ile	Ile	Glu	Asp	Lys	Gly	Ala	Leu	Asp	Cys	Val	Ile
			165					170					175		
Arg	Ala	Arg	Leu	Gln	Ser	Ala	Leu	Leu	Arg	Ala	Ala	Asn	Glu	Gln	Ala
		180						185					190		
Ile	Asn	Trp	Gly	Ala	Leu	Lys									
		195					200								

<210> 9903

<211> 556

<212> PRT

<213> Enterobacter cloacae

<400> 9903

Leu	Arg	Arg	Gln	Lys	Arg	Ala	Ser	Val	Thr	Ala	Trp	Ala	Trp	Cys	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1	5	10	15
Ser Thr Ala Lys Trp Trp Met His Arg Leu Leu Thr Thr Arg Arg Trp	20	25	30
Cys Trp Ser Ala Arg Arg Pro Pro Ala Cys Val Gly Lys Asp Asp Ile	35	40	45
Met Asn Gln Thr Glu Leu Leu His Met Asn Phe Pro His Leu Arg Asp	50	55	60
Leu Lys Pro Phe Asp Thr Ala His Ser Ala Thr Pro Trp Leu Ala Asp	65	70	75
Ser Glu Ala Lys His Ser Arg Lys Leu Cys Ala Ser Ile Glu Glu Ala	85	90	95
Val Lys Arg Cys Gly Leu Gln Asp Gly Met Thr Ile Ser Phe His His	100	105	110
Ala Phe Arg Glu Gly Asp Arg Val Ile Asn Thr Val Val Ala Leu Leu	115	120	125
Ala Arg Met Gly Phe Lys Asn Leu Thr Leu Ala Ser Ser Ser Leu Met	130	135	140
Thr Cys Asn Asp Ala Leu Ile Glu His Ile Glu Ser Gly Val Ile Thr	145	150	155
Arg Ile Tyr Thr Ser Gly Met Arg Gly Arg Leu Ala Asp Ala Ile Ser	165	170	175
His Gly Leu Met Glu Glu Pro Val Gln Ile His Ser His Gly Gly Arg	180	185	190
Val Lys Leu Leu Gln Asp Gly Glu Leu Asn Ile Asp Val Ala Phe Leu	195	200	205
Gly Val Pro Cys Ser Asp Glu Phe Gly Asn Ala Asn Gly Thr His Gly	210	215	220
Lys Ser Cys Cys Gly Ser Leu Gly Tyr Ala Met Val Asp Ala Gln Phe	225	230	235
Ala Arg Lys Val Val Leu Leu Thr Glu Ala Leu Val Pro Phe Pro Asn	245	250	255
Met Pro Ala Ser Leu Val Gln Asp Gln Val Asp Tyr Ile Val Gln Val	260	265	270
Glu Ser Val Gly Asp Pro Ala Lys Ile Ser Val Gly Ala Ala Arg Val	275	280	285
Thr Ser Asn Pro Arg Glu Leu Met Ile Ala Arg Tyr Ala Ala Asp Val	290	295	300
Ile Glu His Ser Gly Tyr Phe Lys Pro Gly Phe Ser Met Gln Thr Gly	305	310	315
Ser Gly Ala Ala Ala Thr Ala Cys Thr Arg Phe Met Glu Glu Lys Met	325	330	335
Glu Arg Ser Gly Val Lys Ala Arg Phe Ala Leu Gly Gly Ile Thr Gly	340	345	350
Ser Leu Val Asp Leu His Glu Lys Gly Leu Ile Glu Lys Leu Leu Asp	355	360	365
Thr Gln Cys Phe Asp Gly Gln Ala Ala Ala Ser Leu Ala Arg Asn Pro	370	375	380
Asn His Val Glu Ile Ser Thr Asn Val Tyr Ala Asn Pro Gly Ser Lys	385	390	395
Ala Ala Ser Cys Asp Gln Leu Asp Val Val Ile Leu Ser Ala Leu Glu	405	410	415
Ile Asp Val Asp Phe Asn Val Asn Val Ile Thr Gly Ser Asp Gly Val	420	425	430
Met Arg Gly Ala Ser Gly Gly His Cys Asp Val Ala Ala Ala Asn	435	440	445
Leu Thr Ile Val Val Ala Pro Leu Leu Arg Ser Arg Ile Pro Thr Val	450	455	460
Val Lys Arg Val Thr Thr Arg Leu Thr Pro Gly Glu Ser Ile Asp Val	465	470	475
Leu Val Thr Asp His Gly Ile Ala Val Asn Pro Ala Arg Pro Glu Ile	485	490	495

Arg Glu Arg Leu Met Glu Ala Gly Met Lys Val Val Asp Ile Asn Ala
 500 505 510
 Leu Tyr Glu Arg Ala Ile Ser Leu Thr Gly Val Pro Lys Pro Ile Glu
 515 520 525
 Phe Thr Asp Lys Ile Val Gly Val Ile Arg Tyr Arg Asp Gly Ser Val
 530 535 540
 Ile Asp Thr Val Arg Gln Val Lys Glu Glu Val
 545 550 555

<210> 9904

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 9904

Ser Met Thr Gly Leu Leu Ala Thr Lys Pro Arg Pro Val Asp Val Pro
 1 5 10 15
 Ala Leu Ala Glu Ala Ala Leu Trp Gln Glu Leu Glu Leu Thr Pro Lys
 20 25 30
 Pro Gly Leu Val Asp Arg Leu Asn Asn Gly Ser His Arg Asp Met Asp
 35 40 45
 His Ala Leu Phe Val Arg Ser Ile Met Ala Ile Thr Pro Trp Phe Ala
 50 55 60
 Arg Phe Ala Glu Leu Gly Glu Ala His Ala Ala Lys Pro Ala Asp Arg
 65 70 75 80
 Gln Leu Arg Ile Leu Arg Pro Met Gly Met Ala Cys Glu Gln Ala Met
 85 90 95
 Tyr Ala Ala Thr Gly Gly Val Asn Thr His Lys Gly Gly Ile Phe Ala
 100 105 110
 Leu Gly Leu Leu Cys Phe Ala Ala Gly Arg Val Lys Asn Ile Ser Ala
 115 120 125
 Asp Ser Leu Cys Cys Glu Val Ser His Ile Cys Arg Gly Leu Val Ala
 130 135 140
 Arg Glu Leu Ala Gly Arg Ser Gly Gln Ala Thr Ala Gly Glu Arg Gln
 145 150 155 160
 Phe Gln His Tyr Gly Leu Thr Gly Ala Arg Gly Glu Ala Glu Ser Gly
 165 170 175
 Phe Ala Thr Val Arg Lys Ala Leu Gly Gln Trp Asn Gly Gln Leu Leu
 180 185 190
 His Asp Leu Leu Leu Arg Leu Met Ala Val Asn Gln Asp Ser Asn Leu
 195 200 205
 Val Ser Arg Gly Gly Ile Gln Gly Leu Arg Tyr Val Gln Gly Tyr Ala
 210 215 220
 Arg Glu Leu Leu Ala Asn Cys Trp Asp Arg Glu Ala Leu Leu Lys Met
 225 230 235 240
 Asp Lys Ala Leu Ile Glu Arg Asn Leu Ser Pro Gly Gly Ser Ala Asp
 245 250 255
 Leu Leu Ser Val Gly Trp Val Leu Ser Ala Ile Lys
 260 265

<210> 9905

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 9905

Ser Met Asp Val Glu Glu Ile Val Ala Leu Ser Val Lys His Asn Val
 1 5 10 15
 Ser Asp Leu His Leu Cys Ser Asp Ser Pro Pro Arg Trp Arg Arg Ser
 20 25 30
 Gly Arg Leu Glu Pro Ala Pro Phe Pro Pro Pro Asp Val Glu Ala Leu

```

      35              40              45
Leu Lys Ala Trp Leu Asn Asp Glu Gln Gln Gly Ala Trp Trp Ala Asn
 50
Gly Gln Val Asp Phe Ala Val Thr Leu Ala Asp Arg Gln Arg Leu Arg
65
Gly Ser Ala Phe Lys His Met His Gly Val Ser Ile Ala Leu Arg Leu
      85              90              95
Leu Pro Leu Thr Cys Pro Gln Leu Ser Ala Leu Gly Val Pro Arg Ala
      100              105              110
Ile Pro Glu Leu Leu Ser Asn Asp Asn Gly Leu Ile Leu Val Thr Gly
      115              120              125
Ala Thr Gly Ser Gly Lys Ser Thr Thr Leu Ala Ala Met Val Asp Phe
      130              135              140
Leu Asn His Gln Thr Asp Gly His Ile Leu Thr Leu Glu Asp Pro Val
      145              150              155
Glu Phe Met Tyr Gln Ser Glu Arg Cys Leu Ile Gln Gln Arg Glu Ile
      160              165              170
Gly Leu His Ser Pro Ser Phe Ala Glu Ala Leu Arg Ser Ala Leu Arg
      180              185              190
Glu Asp Pro Asp Val Ile Leu Leu Gly Glu Leu Arg Asp Ser Glu Thr
      195              200              205
Ile Arg Leu Ala Leu Thr Ala Ala Glu Thr Gly His Leu Val Leu Ala
      210              215              220
Thr Leu His Thr Arg Gly Ala Ala Gln Ala Ile Glu Arg Leu Val Asp
      225              230              235
Thr Phe Pro Ala Gln Glu Lys Asp Pro Val Arg Asn Gln Leu Ala Gly
      240              245              250
Ser Leu Arg Ala Val Leu Ala Gln Lys Leu Arg Gln Asp Val Gln Gly
      255              260              265
Gly Arg Val Ala Leu Tyr Glu Leu Leu Val Asn Thr Ser Ala Ala Ala
      270              275              280
Asn Leu Ile Arg Glu Gly Lys Thr Trp Gln Leu Pro Gly Ile Ile Gln
      285              290              300
Thr Gly Gln Gln Ala Gly Met Gln Asn Phe Glu Gln Ser Leu Ala Glu
      305              310              315
Arg Arg Ala Gln Gly Arg Leu
      320              325

```

<210> 9906

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 9906

```

Phe Tyr Gln Gly Leu Gln Asp Phe Asp Thr Gly Ser Leu Ser Val Asn
 1              5              10
Arg Tyr Gly Trp Ile Asn Ile Trp Thr Ser Ile Leu Gly His Phe Phe
      20              25              30
Thr Arg Phe Pro Val Phe Phe Asp Ser Pro Leu Ile Ala Leu Lys Thr
      35              40              45
Leu Leu Glu Ile Phe Pro Asp Asp Ala Gly Asn Leu Arg Ile Phe Val
      50              55              60
Leu Leu Phe Ser Asp Leu Leu Gly Ile Lys Arg Gly Ala Arg Leu Ile
      65              70              75

```

<210> 9907

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 9907

Thr Arg Ala Leu Leu Ile Gln Glu Phe Ser Arg Gly Phe Ala Glu
 1 5 10 15
 Pro Cys His Thr Glu Phe Gly Tyr Val Phe Tyr Asn Asp Met Asn Lys
 20 25 30
 Lys Pro Val Ala Arg Ser Gly Phe Gln His Thr Leu Leu Gly Asn Gly
 35 40 45
 Ala Val Asn Gly Leu Leu Ser Pro Tyr Asn Ala Ala Ile Val Val Asn
 50 55 60
 Cys Phe Thr Leu Asn Thr Lys Ser
 65 70

<210> 9908

<211> 409

<212> PRT

<213> *Enterobacter cloacae*

<400> 9908

Pro Arg His Ala Pro Ser Ala Glu Lys Ala Gly Gly Gly Met Thr Ser
 1 5 10 15
 Arg Ile Val Ile Ile Gly Gly Gly Gln Ser Gly Gly Trp Ala Ala Lys
 20 25 30
 Thr Leu Arg Asp Glu Gly Phe Asp Gly Glu Ile Cys Val Val Ala Glu
 35 40 45
 Glu Glu Trp Asp Phe Tyr Glu Arg Pro Pro Leu Ser Lys Ala Ser Leu
 50 55 60
 Leu Glu Pro Asp Ala Ala Leu Pro Arg Leu Phe Thr Asp Glu Val Gln
 65 70 75 80
 Gln Ala Leu Asn Leu Thr Trp Tyr Arg Pro Leu Arg Ala Glu Ser Val
 85 90 95
 Asp Arg Val Glu Lys Lys Val Leu Leu Ser Asn Gly Glu Gln Leu Ser
 100 105 110
 Tyr Asn Ile Leu Leu Ile Ala Thr Gly Arg Ala Arg Leu Pro Ser
 115 120 125
 Gln Ala Trp Ala Ser His Pro Gln Val Tyr Thr Leu Arg His Trp Gln
 130 135 140
 Asp Ala Gln Arg Leu Lys Ser Arg Leu Ser Glu Ser His Lys Leu Ala
 145 150 155 160
 Ile Ile Gly Gly Gly Trp Ile Gly Leu Glu Ile Ala Ala Ser Ala Arg
 165 170 175
 Lys Ser Gly Val Ala Val Thr Leu Phe Glu Gln Gln Pro Ala Leu Cys
 180 185 190
 Met Arg Ser Val Ser Gly Glu Val Ser Gln Arg Leu Glu Ala Ile His
 195 200 205
 Arg Glu Gln Gly Val Glu Ile Arg Thr Gly Cys Gly Ala Leu Glu Leu
 210 215 220
 Glu Asp Asp Gly Gly Leu Pro Val Val His Cys Asp Gly Asn Arg Glu
 225 230 235 240
 Thr Phe Asp Ala Val Val Val Gly Ile Gly Val Asp Leu Asn Leu Glu
 245 250 255
 Leu Ala Arg Asp Ala Gly Leu Lys Thr Gly Arg Gly Ile Val Val Asp
 260 265 270
 Ala Gln Gly Arg Thr Ser Asp Pro Phe Ile Phe Ala Ala Gly Asp Val
 275 280 285
 Ala Gln His His His Tyr Gly Leu Cys Ile Gln Ser Trp Ala Phe Ala
 290 295 300
 Gln Asn Gln Ala Val Ala Thr Ala Lys Ala Met Leu Asn Pro Asp Ala
 305 310 315 320
 Pro Gly Tyr Asp Asp Ala Pro Trp Leu Trp Ser Asp Gln Tyr Gln His
 325 330 335

```
<210> 9909
<211> 329
<212> PRT
<213> Enterobacter cloacae
```

<210> 9910

<211> 260
 <212> PRT
 <213> Enterobacter cloacae

<400> 9910

Gly His Ile Met Lys Lys Val Met Leu Ile Gly Leu Gly Ala Met Ala
 1 5 10 15
 Gln Ala Val Ile Glu Arg Leu Pro Ala Gly Val Ala Ile Gly Trp Ile
 20 25 30
 Val Ala Arg Ala Ser His His Pro Ala Ile His Asp Gln Phe Gly Asp
 35 40 45
 Ala Val Glu Ala Leu Thr Ser Pro Met Ala Cys Ala Gln Thr Pro Asp
 50 55 60
 Leu Val Leu Glu Cys Ala Ser Gln Glu Ala Val Ala Gln Tyr Gly Glu
 65 70 75 80
 Glu Ile Leu Arg Arg Gly Trp His Leu Ala Ile Ile Ser Thr Gly Ala
 85 90 95
 Leu Ala Asp Ser Ala Leu Glu Gln Arg Leu Leu Ala Ala Gly Gly Lys
 100 105 110
 Leu Thr Leu Leu Ser Gly Ala Val Ala Gly Ile Asp Gly Leu Ala Ala
 115 120 125
 Ala Lys Glu Gly Gly Leu Glu Arg Val Thr Tyr Gln Ser Arg Lys Ser
 130 135 140
 Pro Ala Ser Trp Arg Gly Ser Tyr Ala Glu Gln Leu Ile Asp Leu Asn
 145 150 155 160
 Ala Val Ser Glu Ala Lys Val Phe Phe Glu Gly Ser Ala Arg Glu Ala
 165 170 175
 Ala Arg Leu Phe Pro Ala Asn Ala Asn Val Ala Ala Thr Val Ala Leu
 180 185 190
 Gly Gly Val Gly Met Glu Asp Thr Arg Val Gln Leu Met Val Asp Pro
 195 200 205
 Ala Thr Lys Arg Asn Thr His Thr Leu His Val Glu Gly Leu Phe Gly
 210 215 220
 Glu Phe His Leu Glu Leu Ser Gly Leu Pro Leu Ala Ser Asn Pro Lys
 225 230 235 240
 Thr Ser Thr Leu Ala Ala Leu Ser Ala Val Arg Ala Cys Arg Glu Leu
 245 250 255
 Ala Leu Ser
 260

<210> 9911
 <211> 493
 <212> PRT
 <213> Enterobacter cloacae

<400> 9911

Gly Val Thr Met Asp Asp Leu Lys Ile Phe Ile Gly Gly Gln Trp Arg
 1 5 10 15
 Arg Gly Gly Gly Asn Pro Met Gln Ser His Phe Pro Ala Asp Gly Ser
 20 25 30
 Leu Asn Ala Thr Leu Asn Ala Ala Ser Leu Asp Asp Leu Glu Glu Ala
 35 40 45
 Val Ala Ala Gly Glu Arg Ala Trp Arg Asp Pro Ala Trp Arg Asn Ser
 50 55 60
 Leu Pro His Met Arg Ala Lys Ile Leu His Lys Val Ala Asp Leu Ile
 65 70 75 80
 Glu Ser Arg Val Asp Ala Leu Ala Gln Met Gln Ser Arg Asp Asn Gly
 85 90 95
 Lys Pro Leu Ala Glu Ala Arg Gly Leu Val Met Ser Ala Ala Gly Thr
 100 105 110
 Ala Arg Tyr Phe Ala Ala Ala Cys Glu Leu Leu Glu Gly Glu Leu Pro

```

      115              120              125
Thr Pro Arg Gln Pro Asp Leu Leu Thr Leu Ser Cys Tyr Glu Pro Leu
130
Gly Val Val Ala Ala Ile Thr Pro Trp Asn Ser Pro Ile Ala Ser Glu
145
Met Gln Lys Val Ala Pro Ala Ile Ala Gly Asn Ala Val Ile Leu
160
      165              170              175
Lys Pro Ala Glu Ala Thr Pro Leu Met Ala Leu Glu Leu Ala Arg Ile
180
Phe Lys Gln Ala Gly Leu Pro Ala Gly Leu Leu Ser Val Leu Pro Gly
195
Lys Gly Ser Val Ile Gly Asp Ala Leu Ala Arg His Pro Arg Val Arg
210
Lys Ile Ser Phe Thr Gly Gly Thr Thr Thr Gly Arg His Leu Ala His
225
Val Ala Ala Glu Lys Leu Ile Pro Ala Ser Leu Glu Leu Gly Gly Lys
240
      245              250              255
Ser Pro Thr Ile Val Leu Glu Asp Ala Asp Ile Glu Gln Ala Ala Arg
260
Gly Ile Cys Tyr Gly Ile Phe Ser Ser Ala Gly Gln Ala Cys Ile Ala
275
Gly Ser Arg Leu Phe Ile His Glu Ser Ile Tyr Ala Pro Leu Met Ala
290
Arg Leu Leu Glu Leu Thr Arg Gly Leu Arg Val Gly His Pro Phe Thr
305
Asp Gly Val His Val Gly Pro Leu Ile Asn Glu Lys His Arg Gln Ser
320
      325              330              335
Val Ile Gln Tyr Val Glu Leu Ala Lys Arg Glu Gly Gly Arg Val Leu
340
Cys Gly Gly Glu Ile Pro Ala Asp Pro Ala Leu Val Asn Gly Ser Phe
355
Phe Leu Pro Thr Ile Ile Glu Gly Leu Ser Asn Ser Ala Arg Ala Cys
370
Gln Glu Glu Ile Phe Gly Pro Val Leu Val Ala Met Pro Phe Gly Asp
385
Glu Ala Thr Leu Ile His Glu Ala Asn Asp Ser Val Tyr Gly Leu Ala
400
      405              410              415
Ala Gly Ile Trp Thr Arg Asp Thr Gly Arg Ala Leu Arg Leu Ser Glu
420
Gln Leu Glu Ala Gly Thr Val Trp Ile Asn Thr Tyr Lys Val Phe Ala
435
Ile Ser Thr Pro Phe Gly Gly Phe Lys Glu Ser Gly Leu Gly Arg Glu
450
Lys Gly Ile Gln Gly Leu Lys Ala Trp Met Gln Gln Lys Ser Ile Tyr
465
Leu Ala Thr Gly Asn Ser Val Asn His Trp Cys Asp
480
      485              490

```

<210> 9912

<211> 728

<212> PRT

<213> Enterobacter cloacae

<400> 9912

```

Gly Ile Ser Thr Gly Ala Gly Glu Gln Ile Ala Gln His Ala Ser Met
1      5      10      15
Ile Gln Arg Phe Leu Lys Gln Gln Lys Asn Ala Pro Cys Thr Cys Pro
20      25      30
Ala Ala Trp Val Thr Leu Leu Ala Leu Phe Ser Gly Val Ala Gln Asn
35      40      45
Ala Leu Ser Ser Arg Ala Trp Pro Leu Thr Val Arg Ser Gly Val Lys

```

50	55	60
Met Ser Ser Arg Lys Glu Leu Ala Asn Ala Ile Arg Ala Leu Ser Met		
65	70	75
Asp Ala Val Gln Lys Ala Lys Ser Gly His Pro Gly Ala Pro Met Gly		80
	85	90
Met Ala Asp Ile Ala Glu Val Leu Trp Arg Asp Phe Leu Asn His Asn		95
	100	105
Pro Gln Asn Pro Ala Trp Ala Asp Arg Asp Arg Phe Val Leu Ser Asn		110
	115	120
Gly His Gly Ser Met Leu Ile Tyr Ser Leu Leu His Leu Thr Gly Tyr		125
	130	135
Asp Leu Pro Ile Glu Glu Leu Lys Asn Phe Arg Gln Leu His Ser Lys		140
	145	150
Thr Pro Gly His Pro Glu Val Gly Tyr Thr Ala Gly Val Glu Thr Thr		155
	165	170
Thr Gly Pro Leu Gly Gln Gly Ile Ala Asn Ala Val Gly Met Ala Ile		175
	180	185
Ala Glu Lys Thr Leu Ala Ala Gln Phe Asn Arg Pro Gly His Asp Ile		190
	195	200
Val Asp His Phe Thr Tyr Ala Phe Leu Gly Asp Gly Cys Met Met Glu		205
	210	215
Gly Ile Ser His Glu Val Cys Ser Leu Ala Gly Thr Leu Lys Leu Gly		220
	225	230
Lys Leu Val Ala Phe Tyr Asp Asp Asn Gly Ile Ser Ile Asp Gly His		235
	245	250
Val Glu Gly Trp Phe Thr Asp Asp Thr Ala Ala Arg Phe Glu Ala Tyr		255
	260	265
Gly Trp His Val Val Arg Gly Val Asp Gly His Asp Ala Asp Ser Ile		270
	275	280
Lys Arg Ala Val Glu Glu Ala Arg Ala Val Thr Asp Lys Pro Ser Leu		285
	290	295
Leu Met Cys Lys Thr Ile Ile Gly Phe Gly Ser Pro Asn Lys Ala Gly		300
	305	310
Thr His Asp Ser His Gly Ala Pro Leu Gly Asp Ala Glu Ile Ala Leu		315
	325	330
Thr Arg Glu Ala Leu Gly Trp Lys His Pro Ala Phe Glu Ile Pro Ser		335
	340	345
Glu Ile Tyr Ala Gln Trp Asp Ala Lys Glu Val Gly Gln Ala Lys Glu		350
	355	360
Ala Ala Trp Asn Glu Lys Phe Ala Ala Tyr Ala Lys Ala Phe Pro Gln		365
	370	375
Glu Ala Ala Glu Phe Thr Arg Arg Met Lys Gly Asp Met Pro Ser Asp		380
	385	390
Phe Asp Ala Lys Ala Asn Glu Phe Ile Ala Lys Leu Gln Ala Asn Pro		395
	405	410
Ala Lys Ile Ala Ser Arg Lys Ala Ser Gln Asn Ala Ile Glu Ala Phe		415
	420	425
Gly Pro Leu Leu Pro Glu Phe Leu Gly Gly Ser Ala Asp Leu Ala Pro		430
	435	440
Ser Asn Leu Thr Leu Trp Ser Gly Ser Lys Pro Ile Asn Glu Asp Thr		445
	450	455
Ala Gly Asn Tyr Ile His Tyr Gly Val Arg Glu Phe Gly Met Thr Ala		460
	465	470
Ile Ala Asn Gly Ile Ala Leu His Gly Gly Phe Leu Pro Tyr Thr Ser		475
	485	490
Thr Phe Leu Met Phe Val Glu Tyr Ala Arg Asn Ala Val Arg Met Ala		495
	500	505
Ala Leu Met Lys Gln Arg Gln Val Met Val Tyr Thr His Asp Ser Ile		510
	515	520
Gly Leu Gly Glu Asp Gly Pro Thr His Gln Pro Val Glu Gln Val Ala		525
	530	535
		540

<210> 9914
 <211> 232
 <212> PRT
 <213> Enterobacter cloacae

<400> 9914

Cys Ala Leu Ser Phe His Thr Thr Gly Lys Thr Ile Met Thr Gln Asp
 1 5 10 15
 Glu Leu Lys Lys Ala Val Gly Trp Ala Ala Leu Gln Tyr Val Gln Pro
 20 25 30
 Gly Thr Ile Val Gly Val Gly Thr Gly Ser Thr Ala Ala His Phe Ile
 35 40 45
 Asp Ala Leu Gly Thr Met Lys Gly Gln Ile Glu Gly Ala Val Ser Ser
 50 55 60
 Ser Asp Ala Ser Thr Glu Lys Leu Lys Ser Leu Gly Ile Thr Val Phe
 65 70 75 80
 Asp Leu Asn Glu Val Asp Arg Leu Gly Ile Tyr Val Asp Gly Ala Asp
 85 90 95
 Glu Ile Asn Gly His Met Gln Met Ile Lys Gly Gly Gly Ala Ala Leu
 100 105 110
 Thr Arg Glu Lys Ile Ile Ala Ser Val Ala Asp Lys Phe Ile Cys Ile
 115 120 125
 Ala Asp Ala Ser Lys Gln Val Asp Ile Leu Gly Asn Phe Pro Leu Pro
 130 135 140
 Val Glu Val Ile Pro Met Ala Arg Ser Ala Val Ala Arg Gln Leu Val
 145 150 155 160
 Lys Leu Gly Gly Arg Pro Glu Tyr Arg Gln Gly Val Val Thr Asp Asn
 165 170 175
 Gly Asn Val Ile Leu Asp Val His Gly Leu Glu Ile Leu Asp Ala Ile
 180 185 190
 Ala Leu Glu Asn Ala Ile Asn Gly Ile Pro Gly Val Val Thr Val Gly
 195 200 205
 Leu Phe Ala Asn Arg Gly Ala Asp Val Ala Leu Ile Gly Thr Ala Asp
 210 215 220
 Gly Val Lys Thr Ile Val Lys
 225 230

<210> 9915
 <211> 411
 <212> PRT
 <213> Enterobacter cloacae

<400> 9915

Met Ala Lys Val Ser Leu Glu Lys Asp Lys Ile Lys Phe Leu Leu Val
 1 5 10 15
 Glu Gly Val His Gln Lys Ala Leu Asp Ser Leu Arg Ala Ala Gly Tyr
 20 25 30
 Thr Asn Ile Glu Phe His Lys Gly Ala Leu Asp Thr Glu Glu Leu Lys
 35 40 45
 Ala Ser Ile Arg Asp Ala His Phe Ile Gly Leu Arg Ser Arg Thr Gln
 50 55 60
 Leu Thr Glu Asp Val Ile Ala Ala Ala Glu Lys Leu Val Ala Ile Gly
 65 70 75 80
 Cys Phe Cys Ile Gly Thr Asn Gln Val Asp Leu Asn Ala Ala Ala Lys
 85 90 95
 Arg Gly Ile Pro Val Phe Asn Ala Pro Phe Ser Asn Thr Arg Ser Val
 100 105 110
 Ala Glu Leu Val Ile Gly Glu Leu Leu Leu Leu Arg Gly Ile Pro
 115 120 125
 Glu Ala Asn Ala Lys Ala His Arg Gly Val Trp Asn Lys Leu Ala Ala

130 135 140
 Gly Ser Tyr Glu Ala Arg Gly Lys Lys Leu Gly Ile Ile Gly Tyr Gly
 145 150 155 160
 His Ile Gly Thr Gln Leu Gly Ile Leu Ala Glu Ser Leu Gly Met His
 165 170 175
 Val Phe Phe Tyr Asp Ile Glu Ser Lys Leu Pro Leu Gly Asn Ala Thr
 180 185 190
 Gln Val Gln His Leu Ser Asp Leu Leu Asn Met Ser Asp Val Val Ser
 195 200 205
 Leu His Val Pro Glu Asn Ala Ser Thr Lys Asn Met Met Gly Ala Glu
 210 215 220
 Glu Leu Ala Leu Met Lys Pro Gly Ser Leu Leu Ile Asn Ala Ala Arg
 225 230 235 240
 Gly Thr Val Val Asp Ile Pro Ala Leu Cys Asp Ala Leu Lys Arg Lys
 245 250 255
 His Leu Ala Gly Ala Ala Ile Asp Val Phe Pro Thr Glu Pro Ala Thr
 260 265 270
 Asn Ser Asp Pro Phe Thr Ser Pro Leu Cys Glu Phe Asp Asn Val Ile
 275 280 285
 Leu Thr Pro His Ile Gly Gly Ser Thr Gln Glu Ala Gln Glu Asn Ile
 290 295 300
 Gly Leu Glu Val Ala Gly Lys Leu Ser Lys Tyr Ser Asp Asn Gly Ser
 305 310 315 320
 Thr Leu Ser Ala Val Asn Phe Pro Glu Val Ser Leu Pro Leu His Gly
 325 330 335
 Gly Arg Arg Leu Leu His Ile His Glu Asn Arg Pro Gly Val Leu Thr
 340 345 350
 Ala Ile Asn Gln Ile Phe Ala Glu Gln Gly Val Asn Ile Ala Ala Gln
 355 360 365
 Tyr Leu Gln Thr Asn Ser Gln Met Gly Tyr Val Val Ile Asp Ile Glu
 370 375 380
 Ala Asp Glu Asp Ile Ala Glu Lys Ala Leu Gln Ser Met Lys Ala Ile
 385 390 395 400
 Pro Gly Thr Ile Arg Ala Arg Leu Leu Tyr
 405 410

<210> 9916

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 9916

Phe Pro Gly Arg Glu His Ile Ser Ser Cys Arg Trp Leu Ile Thr Gln
 1 5 10 15
 Thr Ser Arg Met His Lys Lys Asp Asn His Ile Arg Gly Gln Ser Arg
 20 25 30
 Phe Cys Pro His Lys Arg Leu Asn Asn Ala Phe Met Leu His Ala Ser
 35 40 45
 Thr Ser Pro Phe Tyr Pro Leu Phe Ala Ala Leu Asp Val Asn Ala Lys
 50 55 60
 Ile His Glu Gly Glu Ser Gly Arg Arg Leu Trp Ala Glu Cys Val Glu
 65 70 75 80
 Leu Gly Ile Glu Ala Arg Lys Ala Ile Ile Ala Asn Cys His Met Ile
 85 90 95
 Lys Pro Phe Ile Pro Pro Val Val Ala Gly Arg Pro Trp Gln Asp His
 100 105 110
 Pro Thr Gln Ala Ile Ala Ser Glu Arg Arg Phe Phe Ser Phe Glu Pro
 115 120 125
 Gly Ala Lys Trp His Gly Phe Glu Gly Tyr Ala Arg Glu Gln Tyr Phe
 130 135 140
 Val Asp Pro Cys Lys Leu Leu Leu Thr Thr Pro Gly Ile Asp Ala Glu

145 150 155 160
 Thr Gly His Tyr Thr Asp Phe Gly Ile Pro Ala Thr Ile Leu Ala His
 165 170 175
 Tyr Leu Arg Glu Asn Gly Ile Val Pro Glu Lys Cys Asp Leu Asn Ser
 180 185 190
 Ile Leu Phe Leu Leu Thr Pro Ala Glu Ser Ala Glu Lys Leu Met Gln
 195 200 205
 Leu Val Ala Met Leu Gly Gln Phe Glu Gln His Ile Glu Asp Asp Thr
 210 215 220
 Pro Leu Ala Asp Val Leu Pro Thr Ile Tyr Gln Lys Tyr Pro Val Arg
 225 230 235 240
 Tyr Arg Asp Tyr Thr Ile Arg Gln Leu Cys Gln Glu Met His Asp Leu
 245 250 255
 Tyr Val Ser Phe Asn Val Lys Asp Leu Gln Lys Ala Met Phe Arg Gln
 260 265 270
 Glu Ser Leu Pro Ala Val Val Met Asn Pro Gln Asp Ala Asn Gln Glu
 275 280 285
 Tyr Ile Arg Gly Asn Val Glu Leu Val Arg Ile Arg Asp Ala Glu Gly
 290 295 300
 Arg Ile Ala Ala Glu Gly Ala Leu Pro Tyr Pro Pro Gly Val Leu Cys
 305 310 315 320
 Val Val Pro Gly Glu Val Trp Gly Gly Ala Val Gln Arg Tyr Phe Leu
 325 330 335
 Ala Leu Glu Glu Gly Ile Asn Met Leu Pro Gly Phe Ser Pro Glu Leu
 340 345 350
 Gln Gly Val Tyr Ser Glu Lys Asp Ala Asp Gly Ile Lys Arg Leu Tyr
 355 360 365
 Gly Tyr Val Leu Lys
 370

<210> 9917

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 9917

Arg Leu His Leu Ser Ala Asp Ser Gly Gln Leu Pro Arg Leu Ser Phe
 1 5 10 15
 Gln Glu Arg Thr Met Lys Leu Ala Ser Phe Leu Tyr Gln Gly Lys Arg
 20 25 30
 Ser Tyr Gly Ile Val Gln Ala Asp Gly Val Ile Asp Leu Gly Arg Arg
 35 40 45
 Leu Gly Asp Arg Tyr Gly Asp Leu Lys Ala Leu Leu Gln Gly Asn Gly
 50 55 60
 Leu Ala Gln Ala Thr Arg Phe Leu Asn Asp Ala Val Asp Val Pro Leu
 65 70 75 80
 Asn Ala Ile Thr Phe Leu Pro Val Ile Val Gln Pro Glu Lys Ile Leu
 85 90 95
 Cys Val Gly Met Asn Tyr Ala Asp Lys Arg Lys Glu Phe Asp Gln His
 100 105 110
 Asn Pro Ala Pro Thr Leu Phe Val Arg Phe Pro Asp Ser Gln Thr Gly
 115 120 125
 His Asn Glu Pro Val Leu Lys Pro Arg His Ser Ser Glu Phe Asp Tyr
 130 135 140
 Glu Gly Glu Leu Ala Val Ile Ile Gly Lys Gly Gly Glu Asn Ile Ser
 145 150 155 160
 Arg Asp Asp Ala Leu Arg His Val Ala Gly Tyr Ser Cys Tyr Met Asp
 165 170 175
 Gly Ser Ala Arg Asp Trp Gln His Thr Trp Phe Thr Ala Gly Lys Asn
 180 185 190
 Trp Arg Gln Thr Gly Ala Phe Gly Pro Trp Met Ala Thr Ala Asp Glu

```
<210> 9918
<211> 129
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9919
<211> 257
<212> PRT
<213> Enterobacter cloacae
```

<400> 9919															
Ser	Lys	Asn	Gly	Ala	Ser	Ile	Ser	Trp	Pro	Ile	Leu	Ser	Glu	Gly	Val
1			5						10					15	
Phe	Lys	Met	Arg	Lys	Thr	Leu	Leu	Ala	Val	Ala	Leu	Leu	Ala	Ile	Gly
			20					25					30		
Ser	Thr	Ala	His	Ala	Glu	Tyr	Lys	Cys	Ser	Val	Thr	Pro	Arg	Asp	Asp
		35					40					45			
Val	Val	Leu	Ser	Pro	Gln	Thr	Val	Gln	Val	Lys	Gly	Glu	Asn	Gly	Asn
		50				55					60				
Leu	Val	Ile	Thr	Pro	Asp	Gly	Asn	Val	Thr	Phe	Asn	Gly	Lys	Pro	Gln
65				70						75				80	
Asn	Leu	Thr	Ala	Ala	Gln	Arg	Glu	Gln	Ala	Met	Asp	Tyr	Gln	Ala	Glu
			85						90					95	
Leu	Arg	Thr	Ala	Leu	Pro	Trp	Ile	Asn	Asp	Gly	Ala	Leu	Thr	Arg	Val
			100					105					110		

```
<210> 9920
<211> 316
<212> PRT
<213> Enterobacter cloacae
```

<400>	9920															
Cys	Ile	Asp	Phe	Ile	Arg	Gly	Gln	Asp	Met	Ser	Thr	Leu	Gly	His	Gln	
1				5					10					15		
Tyr	Asp	Asn	Ser	Leu	Val	Ser	Asn	Ala	Phe	Gly	Phe	Leu	Arg	Leu	Pro	
			20					25					30			
Met	Asn	Phe	Gln	Pro	Tyr	Asp	Ser	Asp	Ala	Asp	Trp	Val	Ile	Thr	Gly	
			35				40					45				
Val	Pro	Phe	Asp	Met	Ala	Thr	Ser	Gly	Arg	Ala	Gly	Gly	Arg	His	Gly	
			50			55					60					
Pro	Ala	Ala	Ile	Arg	Gln	Val	Ser	Thr	Asn	Leu	Ala	Trp	Glu	His	Asn	
65					70					75					80	
Arg	Phe	Pro	Trp	Asn	Phe	Asp	Met	Arg	Glu	Arg	Leu	Asn	Val	Val	Asp	
				85					90					95		
Cys	Gly	Asp	Leu	Val	Tyr	Ala	Phe	Gly	Asp	Ala	Arg	Glu	Met	Ser	Glu	
			100					105					110			
Lys	Leu	Gln	Ala	His	Ala	Glu	Lys	Leu	Leu	Ala	Ala	Gly	Lys	Arg	Met	
			115				120					125				
Leu	Ser	Phe	Gly	Gly	Asp	His	Phe	Val	Thr	Leu	Pro	Leu	Leu	Arg	Ala	
			130			135					140					
His	Ala	Lys	His	Phe	Gly	Lys	Met	Ala	Leu	Val	His	Phe	Asp	Ala	His	
145					150					155					160	
Thr	Asp	Thr	Tyr	Ala	Asn	Gly	Cys	Glu	Phe	Asp	His	Gly	Thr	Met	Phe	
				165					170					175		
Tyr	Thr	Ala	Pro	Lys	Glu	Gly	Leu	Ile	Asp	Pro	Asn	His	Ser	Val	Gln	
			180					185					190			
Ile	Gly	Ile	Arg	Thr	Glu	Phe	Asp	Lys	Asp	Asn	Gly	Phe	Thr	Val	Leu	
			195				200					205				
Asp	Ala	Gly	Gln	Val	Asn	Asp	Arg	Gly	Val	Asp	Asp	Ile	Leu	Ala	Gln	
			210			215					220					
Val	Lys	Gln	Ile	Val	Gly	Asp	Met	Pro	Val	Tyr	Leu	Thr	Phe	Asp	Ile	
225					230					235					240	
Asp	Cys	Leu	Asp	Pro	Ala	Phe	Ala	Pro	Gly	Thr	Gly	Thr	Pro	Val	Ile	
				245					250					255		
Gly	Gly	Leu	Thr	Ser	Asp	Arg	Ala	Ile	Lys	Leu	Val	Arg	Gly	Leu	Lys	
			260					265					270			

Asp Leu Asn Ile Val Gly Met Asp Val Val Glu Val Ala Pro Ala Tyr
 275 280 285
 Asp Gln Ser Glu Ile Thr Ala Leu Ala Ala Thr Leu Ala Leu Glu
 290 295 300
 Met Leu Tyr Ile Gln Ala Ala Lys Lys Gly Glu
 305 310 315

<210> 9921

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 9921

Ser Thr Ala Gly Ser Arg Leu Met Asn Gly Leu Leu Ser Gly Lys Arg
 1 5 10 15
 Ile Val Ile Thr Gly Ala Ala Arg Gly Leu Gly Phe His Phe Ala Lys
 20 25 30
 Ala Cys Ala Glu Gln Gly Ala Ala Val Val Met Cys Asp Ile Leu Lys
 35 40 45
 Gly Glu Leu Ala Glu Ser Ala His Ala Leu Ser Glu Arg Gly Tyr Ala
 50 55 60
 Ile Glu Pro His Val Ile Asp Leu Ala Asp Pro Gln Ser Ile Glu Gln
 65 70 75 80
 Val Phe Ser Ala Ile Gly Glu Gln Gly Gln Ile Asp Gly Leu Val Asn
 85 90 95
 Asn Ala Ala Met Ala Thr Gly Val Gly Gly Lys Asn Met Leu Asp Tyr
 100 105 110
 Asp Pro Asp Leu Trp Asp Arg Val Met Ser Val Asn Val Lys Gly Thr
 115 120 125
 Trp Leu Val Thr Arg Ala Ala Val Pro Leu Leu Arg Glu Gly Ala Gly
 130 135 140
 Ile Val Asn Val Ala Ser Asp Thr Ala Leu Trp Gly Ala Pro Arg Leu
 145 150 155 160
 Met Ala Tyr Val Ala Ser Lys Gly Ala Val Ile Ala Met Thr Arg Ser
 165 170 175
 Met Ala Arg Glu Leu Gly Glu Lys Arg Ile Arg Ile Asn Ala Ile Ala
 180 185 190
 Pro Gly Leu Thr Arg Val Glu Ala Thr Glu Tyr Val Pro Ala Glu Arg
 195 200 205
 His Gln Leu Tyr Glu Asn Gly Arg Ala Leu Thr Gly Ala Gln Gln Pro
 210 215 220
 Glu Asp Val Thr Gly Ser Val Val Trp Leu Leu Ser Asp Leu Ser Arg
 225 230 235 240
 Phe Ile Thr Gly Gln Leu Ile Pro Val Asn Gly Gly Phe Val Phe Asn
 245 250 255

<210> 9922

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 9922

Gly Arg Ala Met Met Ala Asn Asp Gln Glu Val Lys Tyr Leu Val Pro
 1 5 10 15
 Gly Leu Glu Arg Gly Leu Gln Leu Leu Ala Phe Gly Glu Gln His
 20 25 30
 Arg Asp Leu Thr Phe Ala Glu Leu His Arg Leu Val Asp Met Pro Lys
 35 40 45
 Ala Thr Ala Tyr Arg Val Val Gln Thr Leu Glu Tyr Met Gly Phe Leu

50						55					60					
Glu	Arg	Asn	Thr	Arg	Thr	Asn	Thr	Phe	Ser	Leu	Gly	Met	Asn	Val	Leu	
65					70					75					80	
Arg	Leu	Gly	Phe	Glu	Tyr	Ile	Ala	Ser	Leu	Asp	Val	Ala	Gln	Val	Gly	
			85						90					95		
Gln	Pro	Val	Ile	Glu	Gln	Leu	Arg	Asp	Val	Ser	Gln	Cys	Ser	Ser	His	
			100					105					110			
Leu	Ala	Ile	Arg	Asp	Gly	Arg	Asp	Ile	Ile	Tyr	Ile	Ala	Arg	Val	Ser	
		115					120					125				
Ala	Ala	Gly	Ser	Arg	Ile	Asn	Gln	Val	Ser	Ile	Gly	Thr	Arg	Leu	Pro	
	130					135					140					
Val	His	Cys	Thr	Ser	Leu	Gly	Arg	Met	Leu	Leu	Thr	Asp	Ile	Ser	Arg	
145					150					155					160	
Ala	Asp	Phe	Glu	Gln	Leu	Phe	Pro	His	Glu	Arg	Leu	Pro	Gly	Asn	Thr	
			165						170					175		
Pro	Gly	Gln	Leu	His	Asp	Arg	Glu	Ala	Leu	Trp	Gln	Met	Val	Gln	Gln	
			180					185					190			
Asp	Lys	Ala	Arg	Gly	Tyr	Val	Ile	Gly	Glu	Ser	Phe	Phe	Arg	His	Gly	
		195						200				205				
Ile	Ser	Ser	Ile	Val	Tyr	Pro	Val	Tyr	Asp	Arg	Ser	Gly	Arg	Val	Ala	
	210					215					220					
Ala	Val	Val	Ser	Ile	Leu	Val	Pro	Ser	Glu	Glu	Ile	Pro	Gln	Ser	Asp	
225					230					235					240	
Arg	Glu	Arg	Leu	Gln	Asn	Glu	Val	Arg	Leu	Ala	Ala	Asp	Lys	Ile	Ser	
				245					250					255		
Gly	Phe	Leu	Gly	Tyr	Leu	Ser	Gln	Ala	Ser							
			260					265								

<210> 9923

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 9923

Leu	Arg	Arg	Ala	Cys	Phe	Thr	Pro	Asn	Leu	Gly	Gln	Met	Arg	Gln	Arg	
1			5						10					15		
Thr	Met	Ser	Val	Thr	Gly	Ile	Glu	Lys	Leu	Glu	Phe	Gly	Val	Glu	Asp	
			20					25					30			
Leu	Thr	His	Cys	Ala	Lys	Phe	Met	Arg	Asp	Phe	Gly	Leu	Thr	Gly	Asp	
		35					40					45				
Ala	Ser	Gly	Gln	Arg	Phe	Thr	Thr	Leu	Ser	Gly	Ala	Arg	Val	Glu	Leu	
	50				55						60					
Asn	Pro	Ile	Asp	Ser	Pro	Asp	Leu	Pro	Pro	Ala	Phe	Glu	Ala	Gly	Asn	
65					70					75				80		
Thr	Leu	Arg	Arg	Met	Thr	Trp	Ala	Val	Ala	Ala	Gln	Ser	Asp	Leu	Asp	
			85					90					95			
Ala	Leu	Arg	Pro	Lys	Leu	Ala	Gln	Gln	Pro	Gly	Phe	Arg	Glu	Val	Gly	
			100					105					110			
Asp	Ala	Leu	Glu	Cys	Leu	Asp	Pro	Asn	Gly	Met	Thr	Leu	Arg	Val	Gln	
		115					120					125				
Val	Thr	Gln	Gln	Thr	Asp	Val	Glu	Leu	Asn	Val	Glu	Pro	Ile	Asn	Gln	
	130				135						140					
Trp	Gly	Asp	Ala	Arg	Arg	Ile	Asp	Thr	Pro	Ser	Pro	Val	Tyr	Asp	Arg	
145					150					155				160		
Ala	Gln	Pro	Ile	Asn	Val	Gly	His	Val	Val	Phe	Phe	Val	Glu	Glu	Leu	
			165					170						175		
Ala	Ala	Val	Glu	Lys	Phe	Tyr	Arg	Glu	Val	Leu	Gly	Phe	Gln	Val	Ser	
		180						185					190			
Asp	Arg	Tyr	Ile	Asn	Arg	Ala	Val	Phe	Leu	Arg	Cys	Gly	Val	Arg	Gly	
		195				200					205					
Gly	His	His	Asn	Leu	Phe	Leu	Leu	Gln	Leu	Pro	Asn	Arg	Lys	Arg	Gly	

```
<210> 9924
<211> 426
<212> PRT
<213> Enterobacter cloacae
```

Pro	Ala	Pro	Val	Gly	Gly	Glu	Met	Thr	Thr	Leu	Glu	Thr	Asn	Thr	Ala
1			5					10					15		
Pro	Val	Glu	Ala	Ser	Gly	Glu	Gly	Thr	Arg	Thr	Pro	Glu	Lys	Ala	Val
			20					25					30		
Arg	Trp	Ala	Ile	Pro	Leu	Ser	Leu	Leu	Ala	Cys	Val	Leu	Leu	Ala	Phe
		35					40					45			
Phe	Asp	Lys	Ile	Ser	Ile	Ala	Ala	Leu	Phe	Ser	Asp	Thr	His	Phe	Gln
	50					55					60				
Gln	Ala	Met	Gly	Ile	Asp	Phe	Asp	Thr	Thr	Arg	Leu	Gly	Ile	Leu	Met
65					70					75					80
Ser	Ala	Phe	Leu	Leu	Ser	Tyr	Gly	Phe	Ser	Ser	Val	Phe	Leu	Ser	Gly
				85					90					95	
Leu	Gly	Asp	Lys	Ile	Ala	Pro	Leu	Arg	Leu	Leu	Thr	Gly	Met	Met	Ala
			100					105					110		
Val	Trp	Cys	Val	Leu	Met	Val	Ala	Met	Gly	Phe	Thr	His	Asn	Tyr	Thr
		115					120					125			
Leu	Met	Ile	Val	Leu	Arg	Ile	Leu	Leu	Gly	Val	Ala	Glu	Gly	Pro	Leu
	130					135					140				
Phe	Pro	Leu	Ala	Phe	Ala	Ile	Val	Arg	His	Asn	Phe	Pro	Gln	His	Leu
145					150					155					160
Gln	Ala	Arg	Ala	Thr	Met	Leu	Trp	Leu	Leu	Gly	Thr	Pro	Val	Gly	Ala
				165					170					175	
Ala	Ile	Gly	Phe	Pro	Leu	Ser	Leu	Trp	Leu	Leu	Asn	Thr	Phe	Gly	Trp
			180					185					190		
Gln	Ser	Thr	Phe	Phe	Val	Met	Ala	Met	Leu	Thr	Val	Pro	Val	Leu	Ile
		195					200					205			
Leu	Val	Arg	Ile	Gly	Leu	Arg	Gly	Ile	Arg	Leu	Glu	Ala	Lys	Pro	Gly
	210					215					220				
Thr	Ser	Gln	Ala	Ser	Gln	Asp	Glu	Arg	Arg	Ala	Ala	Arg	Arg	Glu	Leu
225					230					235					240
Phe	Val	Ser	Pro	His	Phe	Trp	Ile	Ile	Cys	Ile	Phe	Asn	Ile	Ala	Phe
				245					250					255	
Leu	Thr	Tyr	Leu	Trp	Gly	Ile	Asn	Gly	Trp	Leu	Pro	Gly	Tyr	Leu	Ile
			260					265					270		
Lys	Gly	Lys	Gly	Ile	His	Leu	Glu	His	Ala	Gly	Trp	Leu	Ser	Ser	Met
	275						280					285			
Pro	Phe	Ile	Ala	Met	Leu	Ala	Gly	Glu	Val	Ile	Gly	Ala	Trp	Leu	Ser
	290					295					300				
Asp	Arg	Val	Asp	Lys	Arg	Ala	Ala	Ala	Cys	Phe	Ile	Ser	Met	Ala	Gly


```

305          310          315          320
Ala Ala Val Gly Leu Ala Ala Val Met His Leu Asp Thr Pro Leu Ala
          325          330          335
Ile Ile Ala Ala Met Ser Phe Ser Thr Phe Met Trp Gly Thr Gly Ala
          340          345          350
Pro Asn Ile Phe Ala Leu Leu Ala Lys Ala Thr His Pro Arg Val Ser
          355          360          365
Ala Thr Ala Gly Gly Ile Phe Asn Gly Leu Gly Asn Phe Ala Gly Ala
          370          375          380
Leu Ser Pro Ala Val Met Gly Ala Leu Ile Ala Phe Thr His Ser Met
385          390          395          400
Asp Ser Gly Leu Ile Phe Leu Ala Val Met Ala Ala Val Gly Cys Val
          405          410          415
Leu Leu Leu Pro Leu Leu Arg Arg Tyr
          420          425

```

<210> 9925

<211> 548

<212> PRT

<213> Enterobacter cloacae

<400> 9925

```

Ala Met Ser Glu Met Ile Thr Val Gly Asp Ala Ile Ala Arg Thr Leu
1          5          10          15
Glu Gln Tyr Gln Val Glu Ala Ile Tyr Gly Val Ile Ser Ile His Asn
          20          25          30
Leu Pro Ile Ala Asp Ala Val Gly Gln Arg Gly Asn Ile Arg Phe Val
          35          40          45
Pro Ala Arg Gly Glu Ala Gly Ser Val Thr Met Ala Asp Ala His Gly
          50          55          60
Arg Phe Ser Gly Leu Gly Val Ala Leu Thr Ser Thr Gly Ala Gly Ala
65          70          75          80
Gly Asn Ala Val Gly Ala Leu Val Glu Ala Met Asn Ala Cys Thr Pro
          85          90          95
Leu Leu His Leu Thr Gly Gln Val Glu Lys Ala Trp Leu Asp Ala Asp
          100          105          110
Thr Gly Phe Ile His Glu Thr Arg Asp Gln Leu Thr Phe Leu Lys Ala
          115          120          125
Ser Ser Lys Arg Ala Tyr Arg Ile Ser Asn Ala Asn Gln Ala Ile Ala
          130          135          140
Ile Leu His Lys Ala Ile Gln Asp Ala Gln Thr Pro Pro Cys Gly Pro
145          150          155          160
Val Ser Val Glu Ile Pro Ile Asp Ile Gln Ser Ala Lys Ile Pro Leu
          165          170          175
Ser Leu Val Thr Ala Pro Ile Lys Pro Val Ser Ala Pro Ala Val Asp
          180          185          190
Thr Gly Met Val Asp Ala Leu Trp Ala Gln Leu Lys Gln Ala Lys Gln
          195          200          205
Pro Leu Leu Trp Leu Gly Gly Gly Ala Leu Gly Ser Ala Glu Ala Val
210          215          220
Lys Lys Leu Ala Asp Ala Gly Ile Thr Val Ile Ser Ser Thr His Ala
225          230          235          240
Arg Gly Val Leu Pro Asp Asn His Arg Ala Ser Leu Arg Ala Phe His
          245          250          255
Asn Ser Pro Ser Val Glu Ala Leu Ile Ala Gln Cys Asp Phe Thr Leu
          260          265          270
Val Ala Gly Ser Arg Leu Arg Ser Asn Glu Thr Arg Ser Trp Thr Leu
          275          280          285
Glu Leu Pro Ser Pro Arg Val Gln Leu Asp Ile Asp Pro Ala Ala Ala
290          295          300
Ser Arg Asn Tyr Leu Met Asp Ser Thr Leu Ile Ala Asp Cys Ser Ala

```

```

305          310          315          320
Leu Leu Gly Ala Leu Ala Glu Lys Val Gln Gly Arg Glu Trp Gly Asn
          325          330          335
Ala Gln Trp Asp Thr Gln Val Gln Gln Ala Val Gly Gln Ala Glu Gln
          340          345          350
Gly Leu Arg Glu Gln Cys Gly Ala Tyr Ala Lys Leu Asn Asp Ala Ile
          355          360          365
Glu Lys Ala Leu Pro Lys Asp Gly Leu Leu Val Arg Asp Ile Thr Val
          370          375          380
Ser Gly Ser Leu Trp Gly Ser Arg Leu Phe Arg Ala Asn Gly Pro Leu
385          390          395          400
Met Asn Ile His Ser Leu Ala Gly Ala Ile Gly Met Gly Leu Pro Met
          405          410          415
Ala Ile Gly Thr Ala Ile Ala Asn Pro Gln Arg Lys Val Val Gly Leu
          420          425          430
Val Gly Asp Gly Gly Leu Ser Leu Asn Leu Gly Glu Leu Ala Thr Leu
          435          440          445
Ala Gln Glu Lys Ala Asn Val Thr Leu Leu Ile Met Asn Asp Gly Gly
          450          455          460
Tyr Gly Val Met Arg Gly Ile Gln Asp Lys Tyr Phe Gly Gly Arg Gln
465          470          475          480
Tyr Tyr Asn Ala Leu His Thr Pro Asp Phe Thr Leu Leu Ala Gln Ala
          485          490          495
Ile Gly Leu Gln Ala Trp Ser Val Glu Gln Ala Glu Asp Phe Asp Ala
          500          505          510
Val Met Met Glu Ala Leu Ala Met Pro Gly Pro Ser Val Val Glu Val
          515          520          525
Arg Met Gly Gln Ile Gly Ala Leu Lys Phe Ala Gly Pro Pro Gln Lys
          530          535          540
Thr Leu Tyr
545

```

<210> 9926

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 9926

```

Leu Cys Arg Arg Ser Met Thr Val Arg Val Ala Ile Asn Gly Phe Gly
1          5          10          15
Arg Ile Gly Arg Asn Val Val Arg Ala Leu Tyr Glu Ser Gly Arg Arg
          20          25          30
Ala Glu Ile Thr Val Val Ala Ile Asn Glu Leu Ala Asp Ala Ala Gly
          35          40          45
Met Ala His Leu Leu Lys Tyr Asp Thr Ser His Gly Arg Phe Ala Trp
          50          55          60
Asp Val Arg Gln Glu Arg Glu Gln Leu Phe Val Gly Asp Asp Ala Ile
65          70          75          80
Arg Val Leu His Glu Asn Ser Ile Glu Gly Leu Pro Trp Arg Glu Leu
          85          90          95
Gly Val Asp Val Val Leu Asp Cys Thr Gly Val Tyr Gly Asn Arg Glu
          100          105          110
His Gly Glu Ala His Leu Asn Ala Gly Ala Lys Lys Val Leu Phe Ser
          115          120          125
His Pro Gly Ser Asn Asp Leu Asp Ala Thr Val Val Phe Gly Val Asn
          130          135          140
Gln His Glu Leu His Ala Glu His Arg Ile Val Ser Asn Ala Ser Cys
145          150          155          160
Thr Thr Asn Cys Ile Ile Pro Val Ile Lys Leu Leu Asp Asp Ala Tyr
          165          170          175
Gly Ile Glu Ser Gly Thr Val Thr Thr Ile His Ser Ala Met His Asp

```

										180										185										190				
Gln	Gln	Val	Ile	Asp	Ala	Tyr	His	Pro	Asp	Leu	Arg	Arg	Thr	Arg	Ala	Gln	Gln	Val	Ile	Asp	Ala	Tyr	His	Pro	Asp	Leu	Arg	Arg	Thr	Arg	Ala			
										195					200					205														
Ala	Ser	Gln	Ser	Ile	Ile	Pro	Val	Asp	Thr	Lys	Leu	Ala	Ala	Gly	Ile	Ala	Ser	Gln	Ser	Ile	Ile	Pro	Val	Asp	Thr	Lys	Leu	Ala	Ala	Gly	Ile			
										210					215					220														
Thr	Arg	Ile	Phe	Pro	Gln	Phe	Asn	Asp	Arg	Phe	Glu	Ala	Ile	Ala	Val	Thr	Arg	Ile	Phe	Pro	Gln	Phe	Asn	Asp	Arg	Phe	Glu	Ala	Ile	Ala	Val			
										225					230					235														
Arg	Val	Pro	Thr	Ile	Asn	Val	Thr	Ala	Ile	Asp	Leu	Ser	Val	Thr	Val	Arg	Val	Pro	Thr	Ile	Asn	Val	Thr	Ala	Ile	Asp	Leu	Ser	Val	Thr	Val			
										245					250					255														
Lys	Lys	Pro	Val	Lys	Ala	Cys	Glu	Val	Asn	Leu	Leu	Leu	Gln	Lys	Ala	Lys	Lys	Pro	Val	Lys	Ala	Cys	Glu	Val	Asn	Leu	Leu	Leu	Gln	Lys	Ala			
										260					265					270														
Ala	Gln	Gly	Ala	Phe	His	Gly	Ile	Val	Asp	Tyr	Thr	Glu	Leu	Pro	Leu	Ala	Gln	Gly	Ala	Phe	His	Gly	Ile	Val	Asp	Tyr	Thr	Glu	Leu	Pro	Leu			
										275					280					285														
Val	Ser	Val	Asp	Phe	Asn	His	Asp	Pro	His	Ser	Ala	Ile	Val	Asp	Gly	Val	Ser	Val	Asp	Phe	Asn	His	Asp	Pro	His	Ser	Ala	Ile	Val	Asp	Gly			
										290					295					300														
Thr	Gln	Thr	Arg	Val	Ser	Gly	Ala	His	Leu	Ile	Lys	Thr	Leu	Val	Trp	Thr	Gln	Thr	Arg	Val	Ser	Gly	Ala	His	Leu	Ile	Lys	Thr	Leu	Val	Trp			
										305					310					315														
Cys	Asp	Asn	Glu	Trp	Gly	Phe	Ala	Asn	Arg	Met	Leu	Asp	Thr	Thr	Leu	Cys	Asp	Asn	Glu	Trp	Gly	Phe	Ala	Asn	Arg	Met	Leu	Asp	Thr	Thr	Leu			
										325					330					335														
Ala	Met	Ala	Ala	Lys	Gly	Phe	Arg	Ala	Met	Ala	Ala	Lys	Gly	Phe	Arg																			
										340					345																			

<210> 9927

<211> 393

<212> PRT

<213> Enterobacter cloacae

<400> 9927

Glu	Val	Ser	His	Ser	Gly	Ala	Gly	Lys	Pro	Ala	Gln	Phe	Ser	Ala	Arg	Glu	Val	Ser	His	Ser	Gly	Ala	Gly	Lys	Pro	Ala	Gln	Phe	Ser	Ala	Arg
										5					10					15											
Leu	Ser	Glu	Leu	Ala	Pro	Phe	Leu	Thr	Ala	Glu	Asp	Thr	Gly	Leu	Ser	Leu	Ser	Glu	Leu	Ala	Pro	Phe	Leu	Thr	Ala	Glu	Asp	Thr	Gly	Leu	Ser
										20					25					30											
Asn	Met	Ser	Lys	Ile	Phe	Asp	Phe	Val	Lys	Pro	Gly	Val	Ile	Thr	Gly	Asn	Met	Ser	Lys	Ile	Phe	Asp	Phe	Val	Lys	Pro	Gly	Val	Ile	Thr	Gly
										35					40					45											
Asp	Asp	Val	Gln	Lys	Val	Phe	Gln	Val	Ala	Lys	Glu	Asn	Asn	Phe	Ala	Asp	Asp	Val	Gln	Lys	Val	Phe	Gln	Val	Ala	Lys	Glu	Asn	Asn	Phe	Ala
										50					55					60											
Leu	Pro	Ala	Val	Asn	Cys	Val	Gly	Thr	Asp	Ser	Ile	Asn	Ala	Val	Leu	Leu	Pro	Ala	Val	Asn	Cys	Val	Gly	Thr	Asp	Ser	Ile	Asn	Ala	Val	Leu
										65					70					75											
Glu	Thr	Ala	Ala	Lys	Val	Lys	Ala	Pro	Val	Ile	Val	Gln	Phe	Ser	Asn	Glu	Thr	Ala	Ala	Lys	Val	Lys	Ala	Pro	Val	Ile	Val	Gln	Phe	Ser	Asn
										85					90					95											
Gly	Gly	Ala	Ala	Phe	Ile	Ala	Gly	Lys	Gly	Val	Lys	Thr	Asp	Ile	Pro	Gly	Gly	Ala	Ala	Phe	Ile	Ala	Gly	Lys	Gly	Val	Lys	Thr	Asp	Ile	Pro
										100					105					110											
Gln	Gly	Ala	Ala	Ile	Leu	Gly	Ala	Ile	Ser	Gly	Ala	His	His	Val	His	Gln	Gly	Ala	Ala	Ile	Leu	Gly	Ala	Ile	Ser	Gly	Ala	His	His	Val	His
										115					120					125											
Gln	Met	Ala	Glu	His	Tyr	Gly	Val	Pro	Val	Ile	Leu	His	Thr	Asp	His	Gln	Met	Ala	Glu	His	Tyr	Gly	Val	Pro	Val	Ile	Leu	His	Thr	Asp	His
										130					135					140											
Cys	Ala	Lys	Lys	Leu	Leu	Pro	Trp	Ile	Asp	Gly	Leu	Leu	Asp	Ala	Gly	Cys	Ala	Lys	Lys	Leu	Leu	Pro	Trp	Ile	Asp	Gly	Leu	Leu	Asp	Ala	Gly
										145					150					155											
Glu	Lys	His	Phe	Ala	Ala	Thr	Gly	Lys	Pro	Leu	Phe	Ser	Ser	His	Met	Glu	Lys	His	Phe	Ala	Ala	Thr	Gly	Lys	Pro	Leu	Phe	Ser	Ser	His	Met
										165					170					175											
Ile	Asp	Leu	Ser	Glu	Glu	Ser	Leu	Glu	Glu	Asn	Ile	Glu	Ile	Cys	Ser	Ile	Asp	Leu	Ser	Glu	Glu	Ser	Leu	Glu	Glu	Asn	Ile	Glu	Ile	Cys	Ser
										180					185					190											
Lys	Tyr	Leu	Ala	Arg	Met	Ser	Lys	Met	Gly	Met	Thr	Leu	Glu	Ile	Glu	Lys	Tyr	Leu	Ala	Arg	Met	Ser	Lys	Met	Gly	Met	Thr	Leu	Glu	Ile	Glu
										195					200					205											
Leu	Gly	Cys	Thr	Gly	Gly	Glu	Glu	Asp	Gly	Val	Asp	Asn	Ser	His	Met	Leu	Gly	Cys	Thr	Gly	Gly	Glu	Glu	Asp	Gly	Val	Asp	Asn	Ser	His	Met
										210					215					220											
Asp	Ala	Ser	Ala	Leu	Tyr	Thr	Gln	Pro	Glu	Asp	Val	Asp	Tyr	Ala	Tyr	Asp	Ala	Ser	Ala	Leu	Tyr	Thr	Gln	Pro	Glu	Asp	Val	Asp	Tyr	Ala	Tyr
										225					230					235											
Thr	Glu	Leu	Ser	Lys	Ile	Ser	Pro	Arg	Phe	Thr	Ile	Ala	Ala	Ser	Phe	Thr	Glu	Leu	Ser	Lys	Ile	Ser	Pro	Arg	Phe	Thr	Ile	Ala	Ala	Ser	Phe
										245					250					255											
Gly	Asn	Val	His	Gly	Val	Tyr	Lys	Pro	Gly	Asn	Val	Val	Leu	Thr	Pro	Gly	Asn	Val	His	Gly	Val	Tyr	Lys	Pro	Gly	Asn	Val	Val	Leu	Thr	Pro

```
<210> 9928
<211> 644
<212> PRT
<213> Enterobacter cloacae
```

400> 9928																
1	File	Pro	His	Ser	Val	Ser	Ser	Gly	Met	Thr	Arg	Ser	Asn	Cys	Trp	Ile
				5						10					15	
	Gln	Glu	Thr	Asp	Met	Leu	Tyr	Lys	Gly	Asp	Thr	Leu	Tyr	Val	Asp	Trp
				20					25					30		
	Leu	Glu	Asp	Gly	Ile	Ala	Glu	Leu	Val	Phe	Asp	Ala	Pro	Gly	Ser	Val
			35					40					45			
	Asn	Lys	Leu	Asp	Thr	Ala	Thr	Val	Ala	Ser	Leu	Gly	Gln	Ala	Leu	Asp
		50					55					60				
	Val	Leu	Glu	Lys	Gln	Ser	Asp	Leu	Lys	Gly	Leu	Leu	Arg	Ser	Asn	
	65					70					75				80	
	Lys	Ala	Ala	Phe	Ile	Val	Gly	Ala	Asp	Ile	Thr	Glu	Phe	Leu	Ser	Leu
				85						90					95	
	Phe	Leu	Val	Pro	Glu	Glu	Gln	Leu	Ser	Gln	Trp	Leu	His	Phe	Ala	Asn
				100					105					110		
	Ser	Val	Phe	Asn	Arg	Leu	Glu	Asp	Leu	Pro	Val	Pro	Thr	Leu	Ser	Ala
			115					120					125			
	Val	Asn	Gly	Tyr	Ala	Leu	Gly	Gly	Cys	Glu	Cys	Val	Leu	Ala	Thr	
		130					135				140					
	Asp	Tyr	Arg	Leu	Ala	Thr	Pro	Asp	Leu	Arg	Ile	Gly	Leu	Pro	Glu	Thr
	145					150					155				160	
	Lys	Leu	Gly	Ile	Met	Pro	Gly	Phe	Gly	Gly	Ser	Val	Arg	Met	Pro	Arg
				165						170					175	
	Met	Leu	Gly	Ala	Asp	Ser	Ala	Leu	Glu	Ile	Ile	Ala	Ala	Gly	Lys	Asp
				180					185					190		
	Val	Gly	Ala	Glu	Gln	Ala	Gln	Lys	Ile	Gly	Leu	Val	Asp	Gly	Val	Val
			195					200					205			
	Lys	Pro	Glu	Lys	Leu	Val	Glu	Gly	Ala	Leu	Ala	Ile	Leu	Arg	Gln	Ala
		210					215					220				
	Ile	Asn	Gly	Asp	Leu	Asp	Trp	Lys	Ala	Lys	Arg	Gln	Pro	Lys	Leu	Glu
	225					230					235				240	
	Pro	Leu	Lys	Leu	Ser	Lys	Ile	Glu	Ala	Thr	Met	Ser	Phe	Thr	Ile	Ala
				245						250					255	
	Lys	Gly	Met	Val	Met	Gln	Thr	Ala	Gly	Lys	His	Tyr	Pro	Ala	Pro	Ile
				260					265					270		
	Thr	Ala	Val	Lys	Thr	Ile	Glu	Ala	Ala	Ala	Arg	Leu	Gly	Arg	Asp	Asp
			275					280					285			
	Ala	Leu	Lys	Leu	Glu	Asn	Gln	Ser	Phe	Val	Pro	Leu	Ala	His	Thr	Asn

290 295 300
 Glu Ala Arg Ala Leu Val Gly Ile Phe Leu Asn Asp Gln Phe Val Lys
 305 310 315 320
 Gly Lys Ala Lys Gln Leu Thr Lys Asn Val Glu Thr Pro Lys His Ala
 325 330 335
 Ala Val Leu Gly Ala Gly Ile Met Gly Gly Gly Ile Ala Tyr Gln Ser
 340 345 350
 Ala Trp Lys Gly Val Pro Val Val Met Lys Asp Ile Asn Glu Lys Ser
 355 360 365
 Leu Thr Leu Gly Met Thr Glu Ala Ser Lys Leu Leu Asn Lys Gln Leu
 370 375 380
 Glu Arg Gly Lys Ile Asp Gly Leu Lys Leu Ala Gly Val Ile Ser Thr
 385 390 395 400
 Ile Gln Pro Val Leu Glu Tyr Ser Gly Phe Asp Arg Val Asp Val Val
 405 410 415
 Val Glu Ala Val Val Glu Asn Pro Lys Val Lys Lys Ala Val Leu Ala
 420 425 430
 Glu Thr Glu Asp Lys Val Arg Pro Glu Thr Val Leu Ala Ser Asn Thr
 435 440 445
 Ser Thr Ile Pro Ile Ser Glu Leu Ala Ser Val Leu Lys Arg Pro Glu
 450 455 460
 Asn Phe Cys Gly Met His Phe Phe Asn Pro Val His Arg Met Pro Leu
 465 470 475 480
 Val Glu Val Ile Arg Gly Glu Lys Thr Ser Asp Glu Thr Ile Ala Lys
 485 490 495
 Val Val Ala Trp Ala Ser Lys Met Gly Lys Thr Pro Ile Val Val Asn
 500 505 510
 Asp Cys Pro Gly Phe Phe Val Asn Arg Val Leu Phe Pro Tyr Phe Ala
 515 520 525
 Gly Phe Ser Gln Leu Leu Arg Asp Gly Ala Asp Phe Arg Lys Ile Asp
 530 535 540
 Lys Val Met Glu Lys Gln Phe Gly Trp Pro Met Gly Pro Ala Tyr Leu
 545 550 555 560
 Leu Asp Val Val Gly Ile Asp Thr Ala His His Ala Gln Ala Val Met
 565 570 575
 Ala Ala Gly Phe Pro Gln Arg Met Gln Lys Asp Tyr Arg Asp Ala Ile
 580 585 590
 Asp Ala Leu Phe Asp Ala Asn Arg Phe Gly Gln Lys Asn Gly Leu Gly
 595 600 605
 Phe Trp Arg Tyr Lys Glu Asp Ser Lys Gly Lys Pro Lys Lys Glu Glu
 610 615 620
 Asp Ala Ala Val Asp Gly Pro Ala Gly Arg Arg Gln Ser Ala Glu Thr
 625 630 635 640
 Arg Leu His

<210> 9929

<211> 348

<212> PRT

<213> Enterobacter cloacae

<400> 9929

Met Phe Leu Leu Ser Gln Leu His Ile Pro Leu Gln Lys Gly Leu Ile
 1 5 10 15
 Ile Met Lys Ile Lys Asn Leu Thr Leu Thr Leu Cys Thr Thr Leu Leu
 20 25 30
 Leu Ala Ser Phe Ala Gly His Ala Lys Glu Val Lys Ile Gly Met Ala
 35 40 45
 Ile Asp Asp Leu Arg Leu Glu Arg Trp Gln Lys Asp Arg Asp Ile Phe
 50 55 60
 Val Lys Lys Ala Glu Ser Leu Gly Ala Glu Val Phe Val Gln Ser Ala

```

65          70          75          80
Asn Gly Asn Glu Glu Thr Gln Met Ser Gln Ile Glu Asn Met Ile Asn
      85          90
Arg Gly Val Asp Val Leu Val Ile Ile Pro Tyr Asn Gly Gln Val Leu
      100          105
Ser Asn Val Val Lys Glu Ala Lys Gln Glu Gly Ile Lys Val Leu Ala
      115          120          125
Tyr Asp Arg Met Ile Asn Asn Ala Asp Ile Asp Tyr Tyr Ile Ser Phe
      130          135          140
Asp Asn Glu Lys Val Gly Glu Leu Gln Ala Lys Ser Leu Val Ala Lys
      145          150          155
Val Pro Gln Gly Asn Tyr Phe Leu Met Gly Gly Ser Pro Val Asp Asn
      165          170          175
Asn Ala Lys Leu Phe Arg Gln Gly Gln Met Lys Val Leu Lys Pro Tyr
      180          185          190
Ile Asp Glu Gly Lys Ile Lys Val Val Gly Asp Gln Trp Ala Asp Gly
      195          200          205
Trp Leu Pro Glu Asn Ala Leu Lys Ile Met Glu Asn Ala Leu Thr Ala
      210          215          220
Asn Asn Asn Lys Ile Asp Ala Val Val Ala Ser Asn Asp Ala Thr Ala
      225          230          235
Gly Gly Ala Ile Gln Ala Leu Ser Ala Gln Gly Leu Ala Gly Lys Val
      245          250          255
Ala Ile Ser Gly Gln Asp Ala Asp Leu Ala Gly Val Lys Arg Ile Ile
      260          265          270
Ala Gly Thr Gln Thr Met Thr Val Tyr Lys Pro Ile Thr Glu Leu Ala
      275          280          285
Asn Thr Ala Ala Glu Ile Ala Val Glu Leu Gly Asn Gly Gln Gln Pro
      290          295          300
Lys Ala Asp Ala Thr Leu Asn Asn Gly Leu Lys Asp Val Pro Ala Arg
      305          310          315
Leu Leu Thr Pro Ile Glu Val Asn Lys Glu Asn Ile Asp Ala Thr Val
      325          330          335
Val Lys Asp Gly Phe His Lys Lys Ser Glu Leu
      340          345

```

<210> 9930

<211> 538

<212> PRT

<213> Enterobacter cloacae

<400> 9930

```

Ser Ser Ala Ala Pro Ala Arg Gln Gly Arg Ile Asp Leu Pro Cys Thr
1          5          10          15
Ser Val Gly Pro Cys Gly Ala Val Met Ser Tyr Leu Leu Glu Met Lys
      20          25          30
Ser Ile Thr Lys Ala Phe Gly Ala Val Lys Ala Val Asp Asn Val Ser
      35          40          45
Leu Arg Leu Asn Pro Gly Glu Val Met Ser Leu Cys Gly Glu Asn Gly
      50          55          60
Ser Gly Lys Ser Thr Leu Met Lys Val Leu Cys Gly Ile Tyr Pro His
      65          70          75          80
Gly Ser Tyr Glu Gly Glu Ile Val Phe Ala Gly Glu Val Leu Gln Ala
      85          90          95
Thr His Ile Arg Asp Thr Glu Arg Lys Gly Ile Ala Ile Ile His Gln
      100          105          110
Glu Leu Ala Leu Val Lys His Leu Thr Val Leu Glu Asn Ile Phe Leu
      115          120          125
Gly Ala Glu Leu Ser Arg His Gly Val Leu Asp Tyr Asp Thr Met Thr
      130          135          140
Leu Arg Cys Glu Lys Leu Leu Ala Gln Val Ser Leu Ala Ile Ser Pro

```

```

145      150      155      160
Asp Thr Arg Val Gly Asp Leu Gly Leu Gly Gln Gln Gln Leu Val Glu
165      170      175
Ile Ala Lys Ala Leu Asn Lys Gln Val Arg Leu Leu Ile Leu Asp Glu
180      185      190
Pro Thr Ala Ser Leu Thr Glu Gln Glu Thr Ala Val Leu Leu Asn Ile
195      200      205
Ile Arg Asp Leu Gln Asn His Gly Ile Ala Cys Ile Tyr Ile Ser His
210      215      220
Lys Leu Asn Glu Val Lys Ala Ile Ser Asp Thr Ile Cys Val Ile Arg
225      230      235
Asp Gly Gln His Ile Gly Thr Arg Glu Ala Glu Gly Met Ser Glu Asp
245      250      255
Asp Ile Ile Thr Met Met Val Gly Arg Glu Leu Thr Ala Leu Tyr Pro
260      265      270
Asn Glu Pro His Thr Ile Gly Glu Glu Leu Leu Arg Val Glu Asn Leu
275      280      285
Thr Ala Trp His Pro Val Asn Arg His Ile Lys Arg Val Asp Asn Leu
290      295      300
Ser Phe Ser Leu His Arg Gly Glu Ile Leu Gly Ile Ala Gly Leu Val
305      310      315
Gly Ala Gly Arg Thr Glu Ala Val Gln Cys Leu Phe Gly Val Trp Pro
325      330      335
Gly Arg Trp Glu Gly Lys Ile Tyr Ile Asp Gly Gln Pro Val Lys Ile
340      345      350
Asp Asn Cys Gln Gln Ala Ile Ala Lys Gly Ile Ala Met Val Pro Glu
355      360      365
Asp Arg Lys Lys Asp Gly Ile Val Pro Val Met Ala Val Gly Lys Asn
370      375      380
Ile Thr Leu Ala Ala Leu Ser Gln Phe Ser Gly Ala Leu Ser Ser Leu
385      390      395
Asp Asp Ala Ala Glu Gln Gln Cys Ile Leu Gln Ser Leu Ala Arg Leu
405      410      415
Lys Val Lys Thr Ser Ser Pro Glu Leu Ala Ile Gly Arg Leu Ser Gly
420      425      430
Gly Asn Gln Gln Lys Ala Ile Leu Ala Arg Cys Leu Leu Asn Pro
435      440      445
Arg Ile Leu Ile Leu Asp Glu Pro Thr Arg Gly Ile Asp Ile Gly Ala
450      455      460
Lys Tyr Glu Ile Tyr Lys Leu Ile Asn Gln Leu Val Gln Gln Gly Ile
465      470      475
Ala Val Ile Val Ile Ser Ser Glu Leu Pro Glu Val Leu Gly Leu Ser
485      490      495
Asp Arg Val Leu Val Met His Glu Gly Lys Leu Lys Ala Asn Leu Asn
500      505      510
Asn Gln Asn Leu Thr Gln Glu Gln Val Met Glu Ala Ala Leu Arg Ser
515      520      525
Glu Arg His Val Glu Lys Gln Pro Val
530      535

```

<210> 9931

<211> 528

<212> PRT

<213> Enterobacter cloacae

<400> 9931

```

Pro Ser Pro Thr Gly Arg Gly Arg Lys Pro Asn Arg Arg Pro Gly Lys
1      5      10      15
Arg Ser Thr Arg Gln Leu Ser Glu Lys Lys Met Ser Glu Lys Glu Pro
20     25     30
Phe Trp Leu Gly Ile Asp Cys Gly Gly Thr Tyr Leu Lys Ala Gly Leu

```

Tyr	Asn	Ser	Gln	Gly	Lys	Glu	Val	Cys	Ile	Glu	Arg	Arg	Ser	Val	Ala		
Thr	50	Leu	Ser	Pro	Arg	70	Gly	Tyr	Ala	Glu	Arg	60	Met	His	Gln	Leu	
65											75					80	
Trp	Gln	His	Cys	His	Ile	Thr	Val	Ala	Leu	Leu	Leu	Lys	Asn	Ser	95	Gly	
				85													
Ala	Asp	Gly	Gly	Gln	Ile	Lys	Gly	Val	Gly	Ile	Ser	Ala	Gln	Gly	Lys		
			100					105					110				
Gly	Leu	Phe	Leu	Leu	Asp	Lys	Gln	Asp	Arg	Pro	Leu	Gly	Asn	Ala	Ile		
		115					120					125					
Leu	Ser	Ser	Asp	Arg	Arg	Ala	Leu	Glu	Ile	Val	Gln	Arg	Trp	Gln	Gln		
						135						140					
Asp	Gly	Ile	Pro	Glu	Lys	Leu	Tyr	Pro	His	Thr	Arg	Gln	Thr	Leu	Trp		
145					150					155					160		
Thr	Gly	His	Pro	Ala	Ser	Leu	Leu	Arg	Trp	Val	Lys	Glu	Asn	Glu	Pro		
				165						170					175		
Gln	Arg	Tyr	Gln	Gln	Ile	Gly	Ser	Val	Met	Met	Ala	His	Asp	Tyr	Leu		
			180					185					190				
Arg	Trp	Cys	Leu	Thr	Gly	Val	Lys	Gly	Cys	Glu	Glu	Ser	Asn	Ile	Ser		
		195					200					205					
Glu	Ser	Asn	Leu	Tyr	Asn	Met	Asn	Thr	Gly	Gln	Tyr	Asp	Pro	Gln	Leu		
		210				215					220						
Thr	Arg	Trp	Leu	Gly	Ile	Ser	Asp	Ile	Asp	Gly	Ala	Leu	Pro	Ser	Ile		
225					230					235					240		
Ile	Gly	Ser	Ala	Glu	Ile	Cys	Gly	Glu	Ile	Thr	Ala	Gln	Ala	Ala	Ala		
				245					250					255			
Leu	Thr	Gly	Leu	Thr	Ala	Gly	Thr	Pro	Val	Val	Gly	Gly	Leu	Phe	Asp		
			260					265					270				
Val	Val	Ser	Thr	Ala	Ile	Cys	Ala	Gly	Leu	His	Asp	Glu	His	Thr	Leu		
		275					280					285					
Asn	Ala	Val	Met	Gly	Thr	Trp	Ala	Val	Thr	Ser	Gly	Ile	Ala	His	Gly		
		290				295					300						
Ile	Arg	Asp	Asn	Glu	Pro	Phe	Pro	Tyr	Val	Tyr	Gly	Arg	Tyr	Val	His		
305					310					315					320		
Pro	Gln	Gln	Phe	Ile	Val	His	Glu	Ala	Ser	Pro	Thr	Ser	Ser	Gly	Asn		
				325					330					335			
Leu	Glu	Trp	Leu	Thr	Ala	Gln	Trp	Gly	Asp	Met	Ser	Phe	Asp	Glu	Ile		
			340					345					350				
Asn	His	Ala	Val	Ala	Ser	Leu	Pro	Lys	Ala	Glu	Ser	Asp	Val	Phe	Phe		
		355					360					365					
Leu	Pro	Phe	Leu	Tyr	Gly	Ser	Asn	Ala	Gly	Leu	Glu	Met	Thr				

<210> 9932
 <211> 241
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9932

```

Ser Pro Asn Ala Gly Arg Arg His Asp Met Leu Glu Gln Leu Lys Ala
1      5      10      15
Glu Val Leu Ala Asn Leu Ala Leu Pro Ala His Gln Leu Val Thr
      20      25      30
Phe Thr Trp Gly Asn Val Ser Ala Val Asp Arg Ala Ser Gly Met Met
      35      40      45
Val Ile Lys Pro Ser Gly Val Glu Tyr Asp Val Met Thr Ala Glu Asp
      50      55      60
Met Val Val Val Asn Ile Ala Thr Gly Lys Val Val Glu Gly Ser Lys
65      70      75      80
Lys Pro Ser Ser Asp Thr Pro Thr His Leu Ala Leu Tyr Arg Arg Tyr
      85      90      95
Pro Glu Ile Gly Gly Ile Val His Thr His Ser Arg His Ala Thr Ile
      100      105      110
Trp Ser Gln Ala Gly Gln Asp Leu Pro Ala Trp Gly Thr Thr His Ala
      115      120      125
Asp Tyr Phe Tyr Gly Ala Ile Pro Cys Thr Arg Leu Met Thr Thr Ala
130      135      140
Glu Ile Ala Gly Glu Tyr Glu Tyr Gln Thr Gly Val Val Ile Ile Lys
145      150      155      160
Thr Phe Glu Glu Arg Asp Ile Ser Pro Met Gln Val Pro Ala Val Leu
      165      170      175
Val His Ser His Gly Pro Phe Ala Trp Gly Lys Asp Ala Ala Asp Ala
      180      185      190
Val His Asn Ala Val Val Leu Glu Glu Cys Ala Tyr Met Gly Leu Phe
      195      200      205
Ser Arg Gln Leu Ala Pro Gln Leu Pro Val Met Gln Gln Glu Leu Leu
210      215      220
Glu Lys His Tyr Leu Arg Lys His Gly Ala Asn Ala Tyr Tyr Gly Gln
225      230      235      240

```

<210> 9933
 <211> 651
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 9933

```

Thr Ser Gly His Lys Pro Lys Arg Lys His Lys Lys Gly Cys Phe Met
1      5      10      15
Ser Ser Asp Phe Lys Ile Lys Val Gln Ser Phe Gly Arg Phe Leu Ser
      20      25      30
Asn Met Val Met Pro Asn Ile Gly Ala Phe Ile Ala Trp Gly Ile Ile
      35      40      45
Thr Ala Leu Phe Ile Pro Thr Gly Trp Leu Pro Asn Glu Thr Leu Ala
      50      55      60
Lys Leu Val Gly Pro Met Ile Thr Tyr Leu Leu Pro Leu Leu Ile Gly
65      70      75      80
Tyr Thr Gly Gly Arg Leu Val Gly Gly Asp Arg Gly Gly Val Val Gly
      85      90      95
Ala Ile Thr Thr Met Gly Val Ile Val Gly Ala Asp Met Pro Met Phe
      100      105      110
Leu Gly Ala Met Ile Ala Gly Pro Leu Gly Gly Trp Ala Ile Lys Lys

```

[illegible]

Ala	Ala	Arg	Asn	Asn	Glu	His	Ile	Gln	Val	Ile	Thr	Ser	Leu	Thr	Asn
610						615					620				
Ala	Leu	Asp	Asp	Glu	Thr	Val	Ile	Glu	Arg	Leu	Ala	Asn	Thr	Thr	Ser
625					630					635					640
Val	Glu	Glu	Val	Leu	Ala	Leu	Leu	Asn	Lys						
				645					650						

<210> 9934

<211> 592

<212> PRT

<213> Enterobacter cloacae

<400> 9934

Pro	Phe	Ile	Ala	Ile	Asn	Pro	Thr	Ser	Gln	Tyr	Trp	Lys	Asp	His	Phe
1				5					10					15	
Tyr	Thr	Lys	Cys	Asp	Ala	Glu	Met	Ser	Arg	Asp	Ser	Pro	Asp	Glu	His
			20					25					30		
Pro	Cys	Gly	Pro	Gln	Glu	Thr	Cys	Met	Ser	Leu	Trp	Gln	Gln	Asn	Tyr
		35					40					45			
Asp	Pro	Ala	Gly	Asn	Ile	Trp	Leu	Ser	Ser	Leu	Ile	Ala	Ser	Leu	Pro
		50				55				60					
Ile	Leu	Phe	Phe	Phe	Phe	Ala	Leu	Ile	Lys	Leu	Lys	Leu	Lys	Gly	Tyr
65					70					75				80	
Leu	Ala	Ala	Thr	Tyr	Thr	Val	Ala	Ile	Ala	Leu	Val	Ala	Leu	Phe	
				85					90					95	
Phe	Tyr	Lys	Met	Pro	Val	Asp	Arg	Ala	Leu	Ala	Ser	Val	Val	Tyr	Gly
			100					105					110		
Phe	Phe	Tyr	Gly	Leu	Trp	Pro	Ile	Ala	Trp	Ile	Ile	Ile	Ala	Ala	Val
			115				120					125			
Phe	Val	Tyr	Lys	Ile	Ser	Val	Lys	Thr	Gly	Gln	Phe	Asp	Ile	Ile	Arg
			130				135					140			
Ser	Ser	Ile	Leu	Ser	Ile	Thr	Pro	Asp	Gln	Arg	Leu	Gln	Met	Leu	Ile
145					150					155				160	
Val	Gly	Phe	Ser	Phe	Gly	Ala	Phe	Leu	Glu	Gly	Ala	Ala	Gly	Phe	Gly
				165					170					175	
Ala	Pro	Val	Ala	Ile	Thr	Ala	Ala	Leu	Leu	Val	Gly	Leu	Gly	Phe	Asn
			180					185					190		
Pro	Leu	Tyr	Ala	Ala	Gly	Leu	Cys	Leu	Ile	Val	Asn	Thr	Ala	Pro	Val
			195				200					205			
Ala	Phe	Gly	Ala	Met	Gly	Ile	Pro	Ile	Leu	Val	Ala	Gly	Gln	Val	Thr
			210			215					220				
Gly	Leu	Asp	Ser	Phe	Glu	Ile	Gly	Gln	Met	Val	Gly	Arg	Gln	Leu	Pro
225					230					235				240	
Phe	Leu	Thr	Ile	Ile	Val	Leu	Phe	Trp	Ile	Met	Ala	Ile	Met	Asp	Gly
			245						250					255	
Trp	Arg	Gly	Val	Lys	Glu	Thr	Trp	Pro	Ala	Val	Met	Val	Ala	Gly	Gly
			260					265					270		
Ser	Phe	Ala	Ile	Ala	Gln	Tyr	Leu	Ser	Ser	Asn	Phe	Leu	Gly	Gln	Glu
			275				280					285			
Leu	Pro	Asp	Ile	Ile	Ser	Ser	Leu	Val	Ser	Leu	Val	Cys	Leu	Thr	Leu
			290			295					300				
Phe	Leu	Lys	Arg	Trp	Gln	Pro	Val	Arg	Ile	Phe	Arg	Phe	Ala	Asp	Met
305					310					315				320	
Gly	Ala	Ser	His	Val	Asp	Gln	Thr	Leu	Ala	Arg	Thr	Gly	Tyr	Thr	Ala
			325						330					335	
Gly	Gln	Ile	Val	Arg	Ala	Trp	Ser	Pro	Phe	Leu	Phe	Leu	Thr	Ala	Thr
			340					345					350		
Val	Thr	Leu	Trp	Ser	Ile	Pro	Pro	Phe	Lys	Ala	Leu	Phe	Ala	Pro	Gly
			355			360						365			
Gly	Ala	Leu	Tyr	Asp	Met	Val	Ile	Asn	Ile	Ser	Val	Pro	Phe	Leu	Asp
			370			375						380			

Lys Met Val Ala Arg Met Pro Pro Val Val His Asp Ala Thr Pro Tyr
 385 390 395 400
 Ala Ala Val Phe Lys Phe Asp Trp Phe Ser Ala Thr Gly Thr Ala Ile
 405 410 415
 Leu Phe Ala Ala Ile Leu Ser Val Val Trp Leu Arg Met Lys Pro Ala
 420 425 430
 Ala Ala Val Gln Thr Phe Ala Ala Thr Ile Lys Glu Leu Met Leu Pro
 435 440 445
 Ile Tyr Ser Ile Gly Met Val Leu Ala Phe Ala Phe Ile Ser Asn Tyr
 450 455 460
 Ser Gly Leu Ser Ser Thr Leu Ala Leu Ala Leu Ala His Thr Gly His
 465 470 475 480
 Ala Phe Thr Phe Phe Ser Pro Phe Leu Gly Trp Leu Gly Val Phe Leu
 485 490 495
 Thr Gly Ser Asp Thr Ser Ser Asn Ala Leu Phe Ala Ala Leu Gln Ala
 500 505 510
 Thr Ala Ala Gln Gln Ile Gly Val Ser Asp Val Leu Leu Val Ala Ala
 515 520 525
 Asn Thr Thr Gly Gly Val Thr Gly Lys Met Ile Ser Pro Gln Ser Ile
 530 535 540
 Ala Ile Ala Cys Ala Ala Val Gly Leu Val Gly Lys Glu Ser Asp Leu
 545 550 555 560
 Phe Arg Phe Thr Val Lys His Ser Leu Ile Phe Thr Cys Met Val Gly
 565 570 575
 Val Ile Thr Thr Leu Gln Ala Tyr Val Leu Thr Trp Met Ile Pro
 580 585 590

<210> 9935

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 9935

Trp Arg Arg Ala Ser Arg Ser Ala Cys Arg Lys Thr Ile Ala Thr Pro
 1 5 10 15
 Leu Thr Pro Cys Ser Thr Pro Thr Ala Leu Val Arg Lys Thr Val Trp
 20 25 30
 Ala Ser Gly Ala Ile Lys Lys Thr Ala Lys Ala Asn Arg Lys Lys Lys
 35 40 45
 Lys Met Arg Arg Trp Met Ala Leu Leu Ala Asp Val Ser Gln Pro Lys
 50 55 60
 Arg Asp Phe Thr Asp Asp Glu Ile Ile Ala Arg Met Met Ile Pro Met
 65 70 75 80
 Ile Asn Glu Val Val Arg Cys Leu Glu Glu Gly Lys Ile Ile Ala Ser Pro
 85 90 95
 Ala Glu Ala Asp Met Ala Leu Val Tyr Gly Leu Gly Phe Pro Pro Phe
 100 105 110
 His Gly Gly Ala Phe Arg Trp Leu Asp Thr Leu Gly Ser Ala Arg Tyr
 115 120 125
 Leu Asp Met Ala Gln Gln Tyr Gln His Leu Gly Pro Leu Tyr Glu Val
 130 135 140
 Pro Glu Gly Leu Arg Asn Lys Ala Arg His Asn Glu Pro Tyr Tyr Pro
 145 150 155 160
 Ala Val Glu Pro Ala Arg Pro Val Gly Ala Leu Lys Thr Ala
 165 170 175

<210> 9936

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 9936

Gly Val Thr Met Glu Lys Val Val Ile Val Asp Ala Ile Arg Thr Pro
 1 5 10 15
 Met Gly Arg Ser Lys Gly Gly Ala Phe Arg Asn Val Arg Ala Glu Asp
 20 25 30
 Leu Ser Ala His Leu Met Arg Ser Leu Leu Ala Arg Asn Pro Ala Leu
 35 40 45
 Asp Pro Ala Ala Leu Asp Asp Ile Tyr Trp Gly Cys Val Gln Gln Thr
 50 55 60
 Leu Glu Gln Gly Phe Asn Ile Ala Arg Asn Ala Ser Leu Leu Ala Glu
 65 70 75 80
 Ile Pro His Ser Val Pro Ala Val Thr Val Asn Arg Leu Cys Gly Ser
 85 90 95
 Ser Met Gln Ala Leu His Asp Ala Thr Arg Met Ile Met Thr Gly Asp
 100 105 110
 Ala Gln Ala Cys Leu Val Gly Gly Val Glu His Met Gly His Val Pro
 115 120 125
 Met Ser His Gly Val Asp Phe His Pro Gly Met Ser Arg Asn Val Ala
 130 135 140
 Lys Ala Ala Gly Met Met Gly Leu Thr Ala Glu Met Leu Ser Arg Leu
 145 150 155 160
 His Gly Ile Ser Arg Glu Met Gln Asp Ala Phe Ala Ala Arg Ser His
 165 170 175
 Ala Arg Ala Trp Ala Ala Thr Gln Ser Gly Ala Phe Lys Asn Glu Ile
 180 185 190
 Ile Pro Thr Gly Gly His Asp Ala Asp Gly Val Leu Lys Gln Phe Ser
 195 200 205
 Tyr Asp Glu Val Ile Arg Pro Glu Thr Thr Val Glu Ala Leu Ser Thr
 210 215 220
 Leu Arg Pro Val Phe Asp Pro Val Thr Gly Thr Val Thr Ala Gly Thr
 225 230 235 240
 Ser Ser Ala Leu Ser Asp Gly Ala Ala Ala Met Leu Val Met Ser Glu
 245 250 255
 Ser Arg Ala Arg Glu Leu Gly Leu Thr Pro Arg Ala Arg Val Arg Ser
 260 265 270
 Met Ala Val Val Gly Cys Asp Pro Ser Ile Met Gly Tyr Gly Pro Val
 275 280 285
 Pro Ala Ser Lys Leu Ala Leu Lys Lys Ala Gly Leu Ser Ala Ser Asp
 290 295 300
 Ile Asp Leu Phe Glu Met Asn Glu Ala Phe Ala Ala Gln Ile Leu Pro
 305 310 315 320
 Cys Ile Lys Asp Leu Gly Leu Met Asp Gln Ile Asp Glu Lys Ile Asn
 325 330 335
 Leu Asn Gly Gly Ala Ile Ala Leu Gly His Pro Leu Gly Cys Ser Gly
 340 345 350
 Ala Arg Ile Ser Thr Thr Leu Ile Asn Leu Met Glu Arg Lys Asp Ala
 355 360 365
 Gln Phe Gly Leu Ala Thr Met Cys Ile Gly Leu Gly Gln Gly Ile Ala
 370 375 380
 Thr Val Phe Glu Arg Val
 385 390

<210> 9937

<211> 380

<212> PRT

<213> *Enterobacter cloacae*

<400> 9937

Gln His Val Tyr Arg Leu Lys Ser Val Ile Leu Arg Ile Ser Pro Ala
 1 5 10 15
 Pro Tyr Lys Leu Ala Trp Leu Asn Ser Glu Phe Ser Lys Gly Lys Val

```
<210> 9938
<211> 398
<212> PRT
<213> Enterobacter cloacae
```

Gly 1	Ala	Asn	Ala	Met 5	Ser	Lys	Ser	Asn	Pro 10	Ser	Asp	Ile	Lys	Val 15	Ala
Val	Pro	Thr	Pro 20	Gly	Ala	Phe	Ala	Gly 25	Leu	Lys	Ser	Leu	Asn 30	Leu	Gln
Val	Phe	Val 35	Met	Ile	Ala	Ala	Ile 40	Ile	Val	Ile	Met	Leu 45	Phe	Phe	Thr
Trp	Met 50	Thr	Asp	Gly	Ser	Tyr 55	Leu	Ser	Ala	Arg	Asn 60	Val	Ser	Asn	Leu
Leu	Arg	Gln	Thr	Ala	Ile	Thr	Gly	Ile	Leu	Ala	Val	Gly	Met	Val	Phe

```

65          70          75          80
Val Ile Ile Ser Ala Glu Ile Asp Leu Ser Val Gly Ser Met Met Gly
85
Leu Leu Gly Gly Val Ala Ala Ile Phe Asp Val Trp Leu Gly Trp Pro
100
Leu Pro Leu Thr Ile Ala Val Thr Leu Val Leu Gly Leu Leu Gly
115
Ala Trp Asn Gly Trp Trp Val Ala Tyr Arg Lys Val Pro Ser Phe Ile
130
Val Thr Leu Ala Gly Met Leu Ala Phe Arg Gly Ile Leu Ile Gly Ile
145
Thr Asn Gly Thr Thr Val Ser Pro Thr Ser Ala Ser Met Ser Gln Ile
165
Gly Gln Ser Tyr Leu Ser Asp Gly Val Gly Phe Thr Ile Gly Val Val
180
Gly Leu Met Ala Phe Val Ala Trp Gln Trp Arg Gly Arg Met Arg Arg
195
Gln Ala Leu Gly Leu Ala Ser Pro Ala Ser Thr Ser Val Val Gly Arg
210
Gln Ala Leu Thr Ala Val Ile Val Leu Gly Ala Ile Trp Leu Leu Asn
225
Asp Tyr Arg Gly Val Pro Thr Pro Val Leu Leu Leu Ala Leu Leu Leu
245
Leu Gly Gly Met Phe Met Ala Thr Arg Thr Ala Phe Gly Arg Arg Ile
260
Tyr Ala Ile Gly Gly Asn Leu Glu Ala Ala Arg Leu Ser Gly Ile Asn
275
Val Glu Arg Thr Lys Leu Ala Val Phe Ala Ile Asn Gly Leu Met Val
290
Ala Ile Ala Gly Leu Ile Leu Ser Ser Arg Leu Gly Ala Gly Ser Pro
305
Ser Ala Gly Asn Ile Ala Glu Leu Asp Ala Ile Ala Ala Cys Val Ile
325
Gly Gly Thr Ser Leu Ala Gly Gly Ile Gly Ser Val Ala Gly Ala Val
340
Met Gly Ala Phe Ile Met Ala Ser Leu Asp Asn Gly Met Ser Met Met
355
Asp Val Pro Thr Phe Trp Gln Tyr Ile Val Lys Gly Ala Ile Leu Leu
370
Leu Ala Val Trp Met Asp Ser Ala Thr Lys Arg Arg Ala
385
390
395

```

<210> 9939

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 9939

```

Ala Met Phe Glu Lys Arg His Arg Ile Thr Leu Leu Phe Asn Ala Asn
1          5          10
Lys Ala Tyr Asp Arg Gln Val Val Glu Gly Val Gly Glu Tyr Leu Gln
20
Ala Ser Gln Ser Glu Trp Asp Ile Phe Ile Glu Glu Asp Phe Arg Thr
35
Arg Leu Glu Asn Ile Lys Asp Trp Leu Gly Asp Gly Val Ile Ala Asp
50
Phe Asp Asp Pro Val Ile Glu Gln Leu Leu Ser Gly Val Asp Val Pro
65
Ile Val Gly Val Gly Gly Ser Tyr His Thr Pro Glu His Tyr Pro Pro
85
Val His Tyr Ile Ala Thr Asp Asn His Ala Leu Val Glu Thr Ala Phe
90

```

100 105 110
 Leu His Leu Lys Glu Lys Gly Val His Arg Phe Ala Phe Tyr Gly Leu
 115 120 125
 Pro Ala Thr Ser Gly Lys Arg Trp Ala Met Glu Arg Glu Tyr Ala Phe
 130 135 140
 Cys Gln Leu Val Ala Gln Glu Lys Tyr Arg Gly Val Val Tyr Gln Gly
 145 150 155 160
 Leu Glu Thr Ala Pro Glu Asn Trp Gln His Ala Gln Asn Arg Leu Ala
 165 170 175
 Asp Trp Leu Gln Thr Leu Pro Pro Gln Thr Gly Ile Ile Ala Val Thr
 180 185 190
 Asp Ala Arg Ala Arg His Val Leu Gln Val Cys Glu His Leu His Ile
 195 200 205
 Pro Val Pro Glu Lys Leu Cys Val Ile Gly Ile Asp Asn Glu Glu Leu
 210 215 220
 Thr Arg Tyr Leu Ser Arg Val Ala Leu Ser Ser Val Ala Gln Gly Thr
 225 230 235 240
 Arg Gln Met Gly Tyr Gln Ala Ala Lys Leu Leu His Arg Leu Leu Asp
 245 250 255
 Asn Glu Ser Leu Pro Leu Gln Arg Leu Leu Val Pro Pro Val Arg Val
 260 265 270
 Val Glu Arg Arg Ser Thr Asp Tyr Arg Ser Leu Asn Asp Pro Ala Val
 275 280 285
 Ile Gln Ala Met His Tyr Ile Arg Asn His Ala Cys Lys Gly Ile Lys
 290 295 300
 Val Asp Gln Val Leu Asp Ser Val Gly Ile Ser Arg Ser Asn Leu Glu
 305 310 315 320
 Lys Arg Phe Lys Glu Glu Val Gly Glu Thr Ile His Ala Val Ile His
 325 330 335
 Ala Glu Lys Leu Glu Lys Ala Arg Ser Leu Leu Ile Ser Thr Ser Leu
 340 345 350
 Ser Ile Asn Glu Ile Ser Gln Met Cys Gly Tyr Pro Ser Leu Gln Tyr
 355 360 365
 Phe Tyr Ser Val Phe Arg Lys Glu Tyr Asp Thr Thr Pro Lys Glu Tyr
 370 375 380
 Arg Glu Arg Tyr Ser Glu Val Leu Leu
 385 390

<210> 9940

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 9940

Gly Ala Phe Thr Arg Thr Ile His His Thr Asn Thr Asn Pro Pro His
 1 5 10 15
 Lys Thr Thr Asn Pro Thr Thr Ser Ala Asp Leu His Gln His Gly Ala
 20 25 30
 Gly Val Met Val Thr Ala Phe His Ile Lys Pro Asp Arg Ser Pro Ala
 35 40 45
 Met Thr Phe Ser Leu Phe Gly Asp Lys Phe Thr Arg His Ser Gly Ile
 50 55 60
 Thr Arg Leu Met Glu Asp Leu Asn Asp Gly Leu Arg Thr Pro Gly Ala
 65 70 75 80
 Ile Met Leu Gly Gly Gly Asn Pro Ala Gln Ile Pro Glu Met Asn Thr
 85 90 95
 Tyr Phe Gln Thr Leu Leu Ala Glu Met Leu Glu Asn Gly Lys Ala Thr
 100 105 110
 Asp Ala Leu Cys Asn Tyr Asp Gly Pro Gln Gly Lys Thr Glu Leu Leu
 115 120 125
 Thr Leu Leu Ala Ala Met Leu Arg Glu Ala Leu Gly Trp Asp Ile Glu

130 135 140
 Pro Gln Asn Ile Ala Leu Thr Asn Gly Ser Gln Ser Ala Phe Phe Tyr
 145 150 155 160
 Leu Phe Asn Leu Phe Ala Gly Arg Arg Ala Asp Gly Thr Thr Lys Lys
 165 170 175
 Val Leu Phe Pro Leu Ala Pro Glu Tyr Ile Gly Tyr Ala Asp Ala Gly
 180 185 190
 Leu Glu Glu Asp Leu Phe Val Ser Ala Arg Pro Asn Ile Glu Leu Leu
 195 200 205
 Pro Glu Gly Gln Phe Lys Tyr His Val Asp Phe Glu His Leu His Ile
 210 215 220
 Gly Glu Glu Thr Gly Met Ile Cys Val Ser Arg Pro Thr Asn Pro Thr
 225 230 235 240
 Gly Asn Val Ile Thr Asp Asp Glu Leu Met Lys Leu Asp Ala Leu Ala
 245 250 255
 Asn Gln His Gly Ile Pro Leu Val Ile Asp Asn Ala Tyr Gly Val Pro
 260 265 270
 Phe Pro Gly Ile Ile Phe Ser Glu Ala Arg Pro Leu Trp Asn Pro Asn
 275 280 285
 Ile Ile Leu Cys Met Ser Leu Ser Lys Leu Gly Leu Pro Gly Ser Arg
 290 295 300
 Cys Gly Ile Ile Ile Ala Asn Glu Lys Ile Ile Thr Ala Ile Thr Asn
 305 310 315 320
 Met Asn Gly Ile Ile Ser Leu Ser Pro Gly Gly Ile Gly Pro Ala Met
 325 330 335
 Met Cys Glu Met Ile Arg Arg Asn Asp Leu Leu Arg Leu Ser Asn Glu
 340 345 350
 Val Ile Lys Pro Phe Tyr Ser Gln Arg Val Gln Glu Thr Ile Ala Ile
 355 360 365
 Leu Arg Arg Tyr Leu Pro Glu Glu Arg Cys Leu Ile His Lys Pro Glu
 370 375 380
 Gly Ala Ile Phe Leu Trp Leu Trp Phe Lys Asp Leu Pro Ile Thr Thr
 385 390 395 400
 Glu Leu Leu Tyr Gln Arg Leu Lys Lys Arg Gly Val Leu Met Val Pro
 405 410 415
 Gly Asp Tyr Phe Phe Pro Gly Leu Asp Lys Pro Trp Pro His Thr His
 420 425 430
 Gln Cys Met Arg Met Asn Tyr Val Pro Asp Pro Glu Lys Ile Glu Ala
 435 440 445
 Gly Val Lys Ile Leu Ala Glu Glu Ile Glu Asn Ala Trp Arg Glu Ala
 450 455 460
 Gly
 465

<210> 9941

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 9941

Lys Asn Arg Arg Thr Gly Met Lys Val Thr Phe Glu Glu Leu Lys Ala
 1 5 10 15
 Ala Phe Asn Arg Val Leu Leu Asp Arg Gly Val Lys Ala Asp Thr Ala
 20 25 30
 Asp Ala Cys Ala Glu Met Phe Ala Arg Thr Thr Glu Ser Gly Val Tyr
 35 40 45
 Ser His Gly Val Asn Arg Phe Pro Arg Phe Ile Gln Gln Leu Asp Ala
 50 55 60
 Gly Asp Ile Ile Pro Asp Ala Gln Pro Lys Arg Val Thr Thr Leu Gly
 65 70 75 80
 Ala Ile Glu Gln Trp Asp Ala Gln Arg Ser Ile Gly Asn Leu Thr Ala

```
<210> 9942
<211> 453
<212> PRT
<213> Enterobacter cloacae
```

Arg	Ile	His	Phe	Pro	Val	Thr	Phe	Thr	Glu	Ile	Leu	Thr	Met	Asn	Ile
1				5					10					15	
Ser	Ser	Asn	Ala	Leu	His	Ala	Asp	Ile	Pro	Arg	Gln	Arg	Trp	Leu	Arg
			20					25					30		
Ile	Ile	Pro	Pro	Ile	Leu	Ile	Ala	Cys	Ile	Ile	Ser	Tyr	Met	Asp	Arg
		35					40					45			
Val	Asn	Ile	Ala	Phe	Ala	Met	Pro	Gly	Gly	Met	Asp	Glu	Glu	Leu	Gly
	50					55					60				
Ile	Ser	Ala	Thr	Met	Ala	Gly	Leu	Ala	Gly	Gly	Ile	Phe	Phe	Ile	Gly
65					70				75					80	
Tyr	Leu	Phe	Leu	Gln	Val	Pro	Gly	Gly	Lys	Ile	Ala	Val	His	Gly	Ser
				85					90					95	
Gly	Lys	Lys	Phe	Ile	Gly	Trp	Ser	Leu	Val	Ala	Trp	Ala	Val	Ile	Ser
			100					105					110		
Val	Leu	Thr	Gly	Leu	Val	Thr	Asn	Gln	Tyr	Gln	Leu	Leu	Val	Leu	Arg
			115				120					125			
Phe	Leu	Leu	Gly	Val	Ala	Glu	Gly	Gly	Met	Leu	Ser	Val	Val	Leu	Thr
		130				135					140				
Met	Ile	Ser	Asn	Trp	Phe	Pro	Asp	Ala	Glu	Arg	Gly	Arg	Ala	Asn	Ala
145					150				155					160	
Ile	Val	Ile	Met	Phe	Val	Pro	Ile	Ala	Gly	Ile	Ile	Thr	Ala	Pro	Leu

```
<210> 9943
<211> 307
<212> PRT
<213> Enterobacter cloacae
```

<400> 9943																
Ser	Ala	Ala	Gly	Gly	Thr	Gly	Ile	Pro	Phe	Ala	Asn	Pro	Arg	His	Leu	
1				5					10					15		
Gly	Arg	Val	Thr	Met	Arg	Gln	His	Pro	Leu	Gly	Ile	Tyr	Glu	Lys	Ala	
			20					25					30			
Leu	Pro	Lys	Asp	Leu	Ser	Trp	Pro	Glu	Arg	Leu	Val	Leu	Ala	Lys	Ser	
		35					40					45				
Cys	Gly	Phe	Asp	Phe	Val	Glu	Met	Ser	Val	Asp	Glu	Thr	Asp	Glu	Arg	
	50					55					60					
Leu	Ser	Arg	Leu	Glu	Trp	Ser	Thr	Thr	Gln	Arg	Ala	Ser	Leu	Val	Glu	
65				70					75						80	
Ala	Met	Leu	Glu	Thr	Gly	Val	Ala	Ile	Pro	Ser	Met	Cys	Leu	Ser	Ala	
				85					90					95		
His	Arg	Arg	Phe	Pro	Phe	Gly	Ser	Arg	Asp	Glu	Ile	Val	Arg	Glu	Arg	
			100					105					110			
Ala	Arg	Glu	Ile	Met	Thr	Lys	Ala	Ile	Arg	Leu	Ala	Arg	Asp	Leu	Gly	
		115					120					125				
Ile	Arg	Thr	Ile	Gln	Leu	Ala	Gly	Tyr	Asp	Val	Tyr	Tyr	Glu	Glu	His	

130 135 140
 Asp Glu Gly Thr Gln Gln Arg Phe Ala Glu Gly Leu Ala Trp Ala Val
 145 150 155 160
 Glu Gln Ala Ala Ala Gln Val Met Leu Ala Val Glu Ile Met Asp
 165 170 175
 Thr Ala Phe Met Asn Ser Ile Ser Lys Trp Lys Lys Trp Asp Met
 180 185 190
 Leu Ala Ser Pro Trp Phe Ser Val Tyr Pro Asp Val Gly Asn Leu Ser
 195 200 205
 Ala Trp Gly Asn Asp Val Thr Ala Glu Leu Thr Leu Gly Ile Asp Arg
 210 215 220
 Ile Ala Ala Ile His Leu Lys Asp Thr Arg Pro Val Thr Glu Gln Ser
 225 230 235 240
 Pro Gly Gln Phe Arg Asp Val Pro Phe Gly Glu Gly Cys Val Asp Phe
 245 250 255
 Val Gly Val Phe Asn Thr Leu Asn Gln Leu Asn Tyr Arg Gly Ala Phe
 260 265 270
 Leu Ile Glu Met Trp Thr Glu Lys Ala Lys Glu Pro Val Leu Glu Ile
 275 280 285
 Ile Gln Ala Arg Arg Trp Ile Glu Ala Arg Met Gln Glu Gly Gly Met
 290 295 300
 Thr Cys
 305

<210> 9944

<211> 476

<212> PRT

<213> Enterobacter cloacae

<400> 9944

Lys Asn Arg Leu Ser Arg Ser Tyr Pro Met Thr Ser Thr Pro Ile Thr
 1 5 10 15
 Asp Ala Glu Val Ala Lys Gln Ala Ala Asp Glu Arg Leu Ser Val Arg
 20 25 30
 Glu Lys Ile Gly Tyr Gly Leu Gly Asp Ala Gly Gly Thr Val Ile Thr
 35 40 45
 Cys Leu Ile Met Asn Phe Leu Thr Phe Phe Tyr Thr Asp Val Phe Gly
 50 55 60
 Leu Thr Pro Ala Leu Val Gly Thr Leu Phe Ile Ala Leu Arg Val Phe
 65 70 75 80
 Asp Ala Ile Ser Asp Pro Val Met Gly Val Ile Ala Asp Arg Thr Gln
 85 90 95
 Ser Arg Trp Gly Arg Phe Arg Pro Trp Gln Leu Trp Val Ala Leu Pro
 100 105 110
 Ile Gly Ile Val Gly Val Leu Thr Phe Thr Val Pro Asp Ala Ser Met
 115 120 125
 Gly Val Lys Ile Ala Trp Ala Phe Gly Thr Tyr Leu Leu Ser Val
 130 135 140
 Gly Tyr Thr Ala Ile Asn Val Pro Tyr Cys Ala Leu Ile Asn Thr Met
 145 150 155 160
 Thr Thr Arg His Asn Glu Val Ile Ser Cys Gln Ser Trp Arg Phe Val
 165 170 175
 Leu Cys Gly Val Ala Gly Phe Leu Val Ser Val Gly Leu Pro Trp Leu
 180 185 190
 Val Ser Glu Leu Gly Gln Gly Asn Thr Ala Arg Gly Tyr Gln Leu Gly
 195 200 205
 Val Gly Val Leu Cys Ala Ile Ala Val Val Met Phe Leu Cys Cys Phe
 210 215 220
 Phe Trp Val Arg Glu Arg Val Pro Leu Ala Leu Met Gly Lys Phe Thr
 225 230 235 240
 Leu Arg Glu His Leu Ala Gly Leu Arg Lys Asn Asp Gln Leu Leu Leu

```
<210> 9945
<211> 210
<212> PRT
<213> Enterobacter cloacae
```

<400> 9945																	
Arg	Ser	Cys	Gly	Gly	Gly	Gln	Arg	Ile	Gln	Arg	Asn	Gln	Met	Met	Gln		
1				5					10					15			
Ser	Pro	Ala	Gln	Val	Ser	Leu	Arg	Pro	Asn	Asn	Arg	Leu	Ser	Asp	Met		
			20					25					30				
Gln	Ala	Ile	Met	Glu	Gln	Thr	Gln	Ala	Phe	Glu	Asn	Arg	Val	Leu	Glu		
		35					40					45					
Arg	Leu	Asn	Ala	Gly	Lys	Thr	Val	Arg	Ser	Phe	Leu	Ile	Ala	Ala	Val		
	50				55						60						
Glu	Leu	Leu	Thr	Glu	Ala	Val	Asn	Ile	Leu	Val	Leu	Gln	Val	Phe	Arg		
65				70						75					80		
Lys	Asp	Asp	Tyr	Ala	Val	Lys	Tyr	Ala	Val	Glu	Pro	Leu	Leu	Asp	Gly		
			85						90					95			
Asp	Gly	Pro	Leu	Gly	Asp	Leu	Ser	Val	Arg	Leu	Lys	Leu	Ile	Tyr	Gly		
			100					105					110				
Leu	Gly	Val	Leu	Asn	Arg	Gln	Glu	Tyr	Glu	Asp	Ala	Glu	Leu	Leu	Met		
		115					120					125					
Ala	Leu	Arg	Glu	Glu	Leu	Asn	His	Asp	Gly	Asn	Glu	Tyr	Thr	Phe	Thr		
	130				135					140							
Asp	Asp	Glu	Ile	Leu	Gly	Pro	Phe	Gly	Glu	Leu	His	Cys	Val	Ser	Ala		
145				150					155					160			
Leu	Pro	Pro	Ala	Pro	Gln	Phe	Asp	Asn	Ser	Asp	Pro	Glu	Leu	Tyr	Ala		
			165					170					175				
Met	Gln	Lys	Leu	Arg	Tyr	Gln	Gln	Val	Val	Arg	Ser	Thr	Met	Val	Leu		
			180					185				190					
Ser	Leu	Thr	Glu	Leu	Ile	Ser	Lys	Ile	Ser	Leu	Lys	Lys	Ala	Phe	Gln		

<400> 9947

Leu Pro Asn Phe Ala Arg Asp His Ser Ser Leu Arg Val Leu Leu Ala
 1 5 10 15
 Glu Ser Arg Arg Gly Gly Val Phe Pro Leu Ser Arg Met Ala His Trp
 20 25 30
 Ser Lys Met Pro Arg Gln Glu Asn Gly Met Lys Arg Thr Ala Leu Ala
 35 40 45
 Val Leu Met Leu Pro Ala Phe Ala His Ala Asp Trp Ser Ser Pro Gly
 50 55 60
 Phe Asn Ala Phe Ser Ala Glu Gly Thr Gly Val Phe Thr Ser Gln Ala
 65 70 75 80
 Thr Leu Ala Lys Gly Thr Arg Pro Leu Thr Leu Ser Leu Asp Asn Ala
 85 90 95
 Cys Trp Gln Pro Thr Gly Ala Ile Lys Leu Asn Glu Met Leu Ser Leu
 100 105 110
 Lys Pro Cys Glu Gly Thr Pro Pro Gln Trp Arg Leu Phe Arg Asp Gly
 115 120 125
 Val Tyr Gln Met Arg Ile Asp Thr Arg Ser Gly Thr Pro Thr Leu Met
 130 135 140
 Leu Thr Val Gln Ser Ala Ala Pro Gln Pro Val Ala Asn Val Thr Arg
 145 150 155 160
 Gln Cys Pro Lys Trp Asp Gly Lys Pro Leu Thr Ile Asp Val Val Asn
 165 170 175
 Thr Phe Pro Glu Gly Thr Val Val Arg Asp Phe Tyr Ser Lys Gln Thr
 180 185 190
 Ala Thr Val Gln Asn Gly Lys Val Thr Leu Gln Pro Ala Ala Asn Ser
 195 200 205
 Asn Gly Leu Leu Leu Leu Glu Arg Ala Glu Thr Asp Lys Pro Ala Pro
 210 215 220
 Phe Ser Trp Gln Asn Ala Thr Val Tyr Phe Val Leu Thr Asp Arg Phe
 225 230 235 240
 Val Asn Gly Asp Pro Thr Asn Asp Asn Ser Tyr Gly Arg His Lys Asp
 245 250 255
 Gly Met Gln Glu Ile Gly Thr Phe His Gly Gly Asp Leu Lys Gly Leu
 260 265 270
 Thr Ser Lys Leu Asp Tyr Leu Gln Gln Leu Gly Val Asn Ala Leu Trp
 275 280 285
 Ile Ser Ser Pro Leu Glu Gln Ile His Gly Trp Val Gly Gly Gly Thr
 290 295 300
 Lys Gly Asp Phe Pro His Tyr Ala Tyr His Gly Tyr Tyr Thr Gln Asp
 305 310 315 320
 Trp Thr Lys Leu Asp Ala Asn Met Gly Asn Glu Asp Asp Leu Arg Gln
 325 330 335
 Leu Val Asp Asp Ala His Arg Arg Gly Ile Arg Val Leu Phe Asp Ile
 340 345 350
 Val Met Asn His Ala Gly Tyr Ala Thr Leu Ala Asp Met Gln Glu Tyr
 355 360 365
 Gln Phe Gly Ala Leu Tyr Leu Gln Gly Asp Glu Leu Lys Lys Thr Leu
 370 375 380
 Gly Glu Arg Trp Thr Asp Trp Lys Pro Gly Ala Gly Gln Ser Trp His
 385 390 395 400
 Ser Phe Asn Asp Tyr Ile Asn Phe Ser Asp Lys Ala Ala Trp Glu Lys
 405 410 415
 Trp Trp Gly Lys Lys Trp Ile Arg Thr Asp Ile Gly Asp Tyr Asp Asn
 420 425 430
 Pro Gly Phe Asp Asp Leu Thr Met Ser Leu Ala Phe Leu Pro Asp Leu
 435 440 445
 Lys Thr Glu Ser Lys Ile Pro Ser Gly Leu Pro Asn Phe Tyr Gln His
 450 455 460
 Lys Pro Asp Thr Asn Ala Lys Val Met Thr Asn Phe Thr Pro Arg Asp
 465 470 475 480
 Tyr Leu Thr His Trp Leu Ser Gln Trp Val Arg Asp Tyr Gly Ile Asp

485 490 495
 Gly Phe Arg Val Asp Thr Ala Lys His Val Glu Pro Glu Ala Trp Leu
 500 505 510
 Gln Leu Lys Asn Gln Ala Ser Gln Ala Leu Ala Ala Trp Lys Ala Ala
 515 520 525
 Asn Pro Asp Lys Lys Leu Asp Asp Ala Pro Phe Trp Met Thr Gly Glu
 530 535 540
 Ser Trp Gly His Gly Val Met Gln Ser Asp Tyr Tyr Arg His Gly Phe
 545 550 555 560
 Asp Ala Met Ile Asn Phe Asp Tyr Gln Glu Gln Ala Ala Lys Ala Val
 565 570 575
 Asp Cys Leu Ala Asp Met Asp Leu Thr Trp Gln Gln Met Ala Glu Lys
 580 585 590
 Leu Gln Ser Phe Asn Val Leu Ser Tyr Leu Ser Ser His Asp Thr Arg
 595 600 605
 Leu Phe Arg Glu Gly Gly Gln Arg Ala Ala Glu Leu Leu Leu Ala
 610 615 620
 Pro Gly Ser Val Gln Ile Tyr Tyr Gly Asp Glu Ser Glu Arg Pro Phe
 625 630 635 640
 Gly Pro Thr Gly Ser Asp Pro Leu Gln Gly Thr Arg Ser Asp Met Asn
 645 650 655
 Trp Gln Asp Val Thr Gly Lys Gln Ala Leu Thr Val Ala His Trp Gln
 660 665 670
 Leu Leu Gly Gln Phe Arg Ala Arg His Pro Ala Val Gly Glu Gly Lys
 675 680 685
 Gln Thr Thr Leu Ser Met Lys Glu Gly Tyr Gly Phe Val Arg Glu His
 690 695 700
 Lys Gly Asp Lys Val Met Val Val Trp Ala Gly Asn Gln
 705 710 715

<210> 9948

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 9948

Ala Gly Gly Val Tyr Ala Ala Gln Arg Val Gly Gly Thr Gly Phe Asp
 1 5 10 15
 Ala Gly Gly Thr Ala Leu Ala Met Arg Ala Gln Ile Thr Phe Gln Arg
 20 25 30
 Leu Asn Ala Ile Phe His Asp Pro Asn Leu His Cys Pro Glu Arg Ala
 35 40 45
 Arg His His Thr Ala Phe Ala Ala Asp Thr Ala Arg Leu Leu Asn Glu
 50 55 60
 Pro Gly Ser Arg Ser Ala Val Asn Gly Pro Arg Arg Ala Asp Ile Arg
 65 70 75 80
 Ala Gly Arg Ile Phe Thr Leu Val Ala Ala His Cys Arg Gly Glu Gly
 85 90 95
 Phe Pro Leu Asn His Ala Asp Pro
 100 105

<210> 9949

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 9949

Ser Thr Val Gln Pro Ala Met Pro Asn Tyr Ser Ala Ser Trp Thr Ser
 1 5 10 15
 Ser Pro Pro Gln Asn Ala Leu Met Lys Met Ser Pro Ser Val Cys Leu
 20 25 30


```

Asp Met Asn Leu Leu Ala Cys Trp Lys Lys Thr Ala Gly Thr Ala Ser
      35      40      45
Pro Ser Thr Thr Ala Cys Gly Arg Lys Ser Ser Leu Cys Lys Glu Trp
      50      55      60
Val Met Ile Phe Gly His Ile Ala Gln Pro Asn Pro Cys Arg Leu Pro
      65      70      75      80
Leu Ala Ile Glu Lys Ala Leu Asn Phe Leu Arg Thr Thr Asp Phe Thr
      85      90      95
Thr Leu Ala Pro Gly Val Ile Glu Ile Glu Gly Arg Asn Ile Phe Ala
      100      105      110
Gln Val Leu Asp Leu Thr Thr Lys Glu Gln His Glu Asn Arg Pro Glu
      115      120      125
Val His Arg Arg Tyr Leu Asp Ile Gln Phe Leu Ala Trp Gly Glu Glu
      130      135      140
Lys Ile Gly Ile Ala Ile Asp Thr Gly Asn Asn Lys Ile Ser Glu Ser
      145      150      155      160
Leu Leu Glu Gln Arg Asp Ile Ile Phe Tyr His Asp Ser Glu His Glu
      165      170      175
Ser Phe Ile Glu Met Ile Pro Gly Ser Tyr Ala Ile Phe Phe Pro Gln
      180      185      190
Asp Val His Arg Pro Ala Cys Ile Lys Asn Lys Gly Ser Ala Ile Arg
      195      200      205
Lys Ile Val Val Lys Val Ala Ile Ser Glu Leu Asp
      210      215      220

```

<210> 9950

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 9950

```

Gly Val Arg Pro Met Ser Arg Pro Leu Leu Gln Leu Ala Leu Asp His
1      5      10      15
Thr Ser Leu Gln Ala Ala Gln Arg Asp Val Ala Thr Leu Ser Asp His
      20      25      30
Val Asp Ile Val Glu Ala Gly Thr Ile Leu Cys Leu Thr Glu Gly Leu
      35      40      45
Asn Ala Val Arg Ala Leu Arg Ala Gln Cys Pro Asp Lys Ile Ile Val
      50      55      60
Ala Asp Trp Lys Val Ala Asp Ala Gly Glu Thr Leu Ala Glu Gln Ala
      65      70      75      80
Phe Gly Ala Gly Ala Asn Trp Met Thr Ile Ile Cys Ala Ala Pro Leu
      85      90      95
Ala Thr Val Glu Arg Gly His Glu Val Ala Leu Arg Gly Gly Gly Glu
      100      105      110
Ile Gln Met Glu Leu Phe Gly Asn Trp Thr Leu Asp Asp Ala Arg Ala
      115      120      125
Trp His Arg Ile Gly Val Lys Gln Ala Ile Tyr His Arg Gly Arg Asp
      130      135      140
Ala Gln Ala Ser Gly Gln Gln Trp Gly Glu Ala Asp Leu Ser Lys Met
      145      150      155      160
Lys Ala Leu Ser Asp Ile Gly Leu Gln Leu Ser Ile Thr Gly Gly Ile
      165      170      175
Thr Pro Ala Asp Leu Ser Leu Phe Lys Gln Ile Asn Val Lys Ala Phe
      180      185      190
Ile Ala Gly Arg Ala Leu Ala Gly Ala Asp Asn Pro Pro Gln Val Ala
      195      200      205
Gln Ala Phe His Ser Gln Ile Arg Asp Ile Trp Gly Glu
      210      215      220

```

<210> 9951

<211> 669

<212> PRT

<213> *Enterobacter cloacae*

<400> 9951

Cys	Arg	Ala	Leu	Pro	Ile	Cys	Ala	Ser	Val	Met	Tyr	Ser	Pro	Glu
1				5				10					15	
Glu	Asn	Asp	Met	Thr	Ile	Met	Glu	Ala	Asp	Leu	His	Gln	Leu	Lys
			20					25				30		
Asn	Asp	Pro	Phe	Leu	Gly	Gln	Tyr	Gln	Arg	Leu	Val	Arg	Asp	Val
			35				40					45		
Ile	Pro	Tyr	Gln	Trp	Asp	Ala	Leu	Asn	Asp	Arg	Val	Ala	Glu	Ala
			50			55					60			
Pro	Ser	His	Ala	Ile	Ala	Asn	Phe	Arg	Ile	Ala	Ala	Gly	Leu	Glu
					70					75				80
Gly	Glu	Phe	Tyr	Gly	Met	Val	Phe	Gln	Asp	Ser	Asp	Val	Ala	Lys
				85					90					95
Leu	Glu	Ala	Val	Ala	Trp	Ser	Leu	Cys	Gln	Lys	Pro	Asp	Ala	Glu
			100					105					110	
Glu	Lys	Thr	Ala	Asp	Glu	Val	Ile	Glu	Leu	Val	Ala	Ala	Gln	Cys
			115				120					125		
Glu	Asp	Gly	Tyr	Leu	Asn	Thr	Tyr	Phe	Thr	Val	Lys	Ala	Pro	Ala
			130			135					140			
Arg	Trp	Thr	Asn	Leu	Ala	Glu	Cys	His	Glu	Leu	Tyr	Cys	Ala	Gly
				150						155				160
Met	Ile	Glu	Ala	Gly	Val	Ala	Tyr	Phe	Gln	Gly	Thr	Gly	Lys	Arg
				165						170				175
Leu	Leu	Asp	Val	Val	Cys	Arg	Leu	Ala	Asp	His	Ile	Asp	Ser	Val
			180					185					190	
Gly	Pro	Gly	Glu	Asn	Gln	Leu	His	Gly	Tyr	Pro	Gly	His	Pro	Glu
			195				200					205		
Glu	Leu	Ala	Leu	Met	Arg	Leu	Tyr	Asp	Val	Thr	Gln	Glu	Pro	Arg
			210			215					220			
Leu	Asn	Leu	Val	Lys	Tyr	Phe	Ile	Glu	Glu	Arg	Gly	Ala	Gln	Pro
				230						235				240
Phe	Tyr	Asp	Ile	Glu	Tyr	Glu	Lys	His	Gly	Arg	Thr	Ser	Tyr	Trp
				245						250				255
Thr	Tyr	Gly	Pro	Ala	Trp	Met	Val	Lys	Asp	Lys	Ala	Tyr	Ser	Gln
			260					265					270	
His	Leu	Pro	Leu	Ala	Ala	Gln	Gln	Thr	Ala	Ile	Gly	His	Ala	Val
			275				280					285		
Phe	Val	Tyr	Leu	Met	Ala	Gly	Met	Ala	His	Leu	Ala	Arg	Leu	Ser
			290			295					300			
Asp	Glu	Gly	Lys	Arg	Gln	Asp	Cys	Leu	Arg	Leu	Trp	Asn	Asn	Met
				310						315				320
Gln	Arg	Gln	Leu	Tyr	Ile	Thr	Gly	Gly	Ile	Gly	Ser	Gln	Ser	Ser
				325					330					335
Glu	Ala	Phe	Ser	Ser	Asp	Tyr	Asp	Leu	Pro	Asn	Asp	Thr	Val	Tyr
			340					345					350	
Glu	Ser	Cys	Ala	Ser	Ile	Gly	Leu	Met	Met	Phe	Ala	Arg	Arg	Met
			355				360					365		
Glu	Met	Glu	Ala	Asp	Gly	His	Tyr	Ala	Asp	Val	Met	Glu	Arg	Ala
					375						380			
Tyr	Asn	Thr	Val	Leu	Gly	Gly	Met	Ala	Leu	Asp	Gly	Lys	His	Phe
				390						395				400
Tyr	Val	Asn	Pro	Leu	Glu	Val	His	Pro	Lys	Thr	Leu	Ser	Phe	Asn
				405					410					415
Ile	Tyr	Asp	His	Val	Lys	Pro	Val	Arg	Gln	Arg	Trp	Phe	Gly	Cys
			420					425					430	
Cys	Cys	Pro	Pro	Asn	Ile	Ala	Arg	Val	Leu	Thr	Ser	Leu	Gly	His
			435				440					445		

```

Ile Tyr Thr Val Arg Pro Asp Ala Leu Leu Ile Asn Leu Tyr Val Gly
450                               455                               460
Asn Asp Val Ala Ile Pro Val Gly Asp Asn Ile Leu Gln Leu Arg Ile
465                               470                               475                               480
Ser Gly Asn Tyr Pro Trp His Glu Gln Val Lys Ile Glu Ile Thr Ser
485                               490                               495
Pro Val Pro Val Thr His Thr Leu Ala Leu Arg Leu Pro Asp Trp Cys
500                               505                               510
Ala Glu Pro Ala Val Ser Leu Asn Gly Gln Ala Ile Thr Gly Glu Val
515                               520                               525
Ser Arg Gly Tyr Leu Tyr Leu Asn Arg Ser Trp Gln Glu Gly Asp Thr
530                               535                               540
Leu Thr Leu Thr Leu Pro Met Pro Val Arg Arg Val Tyr Gly Asn Pro
545                               550                               555                               560
Gln Val Arg Gln Gln Ala Gly Lys Val Ala Leu Gln Arg Gly Pro Leu
565                               570                               575
Ile Tyr Cys Leu Glu Glu Ala Asp Asn Gly Ala Asn Leu His Asn Leu
580                               585                               590
Ser Leu Arg Gln Asp Ser Ala Phe Arg Val Phe Glu Gly Lys Gly Ile
595                               600                               605
Phe Ala His Lys Met Leu Ile Gln Ala Glu Gly Ile Gly Cys Gln Ala
610                               615                               620
Lys Asp Thr Asp Ala Leu Trp Gln Tyr Asp His Ser Pro Val Glu Arg
625                               630                               635                               640
Gln Pro Arg Thr Leu Thr Phe Ile Pro Trp Phe Ser Trp Ala Asn Arg
645                               650                               655
Gly Glu Gly Glu Met Arg Ile Trp Val Asp Glu Ser
660                               665

```

<210> 9952

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 9952

```

Met Asp Ser Cys Thr Ser Ala Arg Leu Gly Gln Val Gln Thr Ser Pro
1                               5                               10                               15
Trp Leu Asn Ala Asn Ser Ala Asn Pro Ser Ser Ala Leu Ser Lys Lys
20                               25                               30
Ala Ser Ser Ser Ser Ile Thr Ser Ala Lys Lys Met Phe Gly Asp Leu
35                               40                               45
Pro Pro Ser Ser Ser Val Thr Gly Met Met Phe Trp Val Ala Tyr Cys
50                               55                               60
Met Ile Cys Trp Pro Thr Ser Val Glu Pro Val Asn Ala Thr Leu Ala
65                               70                               75                               80
Ile Arg Phe Glu Val Ala Arg Tyr Ser Pro Ile Ser Pro Pro Ala Pro
85                               90                               95
Leu Thr Thr Leu Met Thr Pro Gly Gly Asn Arg Ser Pro Ile Thr Ser
100                              105                              110
Ile Ser Ser Ser Thr Glu Ser Gly Val Lys Arg Ala Gly Phe Ser Thr
115                              120                              125
Thr Gln Leu Pro Ala Ala Ser Ala Gly Ala Ile Phe Gln Leu Ala Ile
130                              135                              140
Ser Ser Gly Lys Phe His Gly Ile Ile Cys Pro Thr Thr Pro Ser Gly
145                              150                              155                              160
Ser Trp Lys

```

<210> 9953

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 9953

Val Tyr Asn Lys Gly Ser Ser Gly Trp Trp Phe Ser Arg Gln Ser Val
 1 5 10 15
 Thr Gly Leu Arg Ala Val Ser Arg Ile Thr Val Leu Tyr Val Ser Phe
 20 25 30
 Leu Pro Pro Glu Pro Tyr Leu Ile Ala Gln Gly Leu Met Arg Asn Asp
 35 40 45
 Ala Met Gln Leu Phe Ile Gly Phe Asp Val Gly Gly Thr His Ile Lys
 50 55 60
 His Gly Val Ile Asn Glu Asn Gly Glu Glu Leu Thr Ser Asp Glu Tyr
 65 70 75 80
 Asp Thr Pro Asp Asp Glu Ser Thr Phe Lys Gln Lys Trp Lys Ala Val
 85 90 95
 Val Asp Lys Tyr Arg Gln Glu His Glu Ile Val Gly Ile Gly Val Ser
 100 105 110
 Phe Pro Gly His Ile Asn His His Thr Gly Glu Ala Ala Lys Ala Gly
 115 120 125
 Ala Leu Asp Tyr Leu Asp Gly Glu Asn Leu Cys Glu Leu Phe Ala Gln
 130 135 140
 Leu Thr Asp Leu Pro Val Thr Thr Glu Asn Asp Ala Asn Cys Ala Ala
 145 150 155 160
 Leu Gly Glu Arg Trp Gln Gly Ala Gly Lys Asp Tyr Glu His Phe Val
 165 170 175
 Cys Ile Thr Ile Gly Thr Gly Ile Gly Gly Gly Ile Val Met Glu Gly
 180 185 190
 Asp Leu Tyr Arg Gly Ser His Tyr Arg Ala Gly Glu Phe Gly Val Leu
 195 200 205
 Pro Val Gly Asn Asn Gly Glu Pro Met His Glu Val Ala Ser Ala Ser
 210 215 220
 Gly Leu Met Lys Ala Cys Arg Arg Ala Leu Ala Val Ser Glu Asp Glu
 225 230 235 240
 Met Pro Asp Gly Glu Glu Leu Phe Arg Arg Met Asp Ser Asp Val His
 245 250 255
 Leu Arg Glu Ala Ile Glu Glu Trp Ala His Phe Leu Ser Arg Gly Ile
 260 265 270
 Tyr Ser Val Ile Ser Met Phe Asp Pro Gln Ala Val Leu Ile Gly Gly
 275 280 285
 Gly Ile Ser Glu Gln Glu Lys Ile Tyr Leu Leu Leu Asp Lys Tyr Leu
 290 295 300
 Gln Arg Phe Glu Glu Trp Glu Ala Leu Arg Val Pro Ile Leu Pro Cys
 305 310 315 320
 Glu Leu Gly Asn Gln Ala Gly Arg Leu Gly Ala Val Trp Leu Ala Lys
 325 330 335
 Gln Lys Gln Ala Arg Ser Ala
 340

<210> 9954

<211> 419

<212> PRT

<213> Enterobacter cloacae

<400> 9954

Gln Ile Thr Val Leu Leu Pro Leu Pro Pro Gly Glu Arg Ala Arg Val
 1 5 10 15
 Arg Gly Lys Arg Ser Ser Pro Gln Pro Ser Arg Val Lys Thr Leu Met
 20 25 30
 Lys Val Asn Thr Met Lys Ala Leu His Phe Gly Ala Gly Asn Ile Gly
 35 40 45
 Arg Gly Phe Ile Gly Lys Leu Leu Ala Asp Ala Gly Ile Thr Leu Thr

50 55 60
 Phe Ala Asp Val Asn Gln Val Val Leu Asp Ala Leu Asn Ala Arg His
 65 70 75 80
 Ser Tyr Gln Val His Val Val Gly Glu Asn Glu Gln Val Glu Thr Val
 85 90 95
 Ser Gly Val Asn Ala Val Ser Ser Ile Gly Asp Asp Val Ile Asp Leu
 100 105 110
 Ile Ala Ser Val Asp Leu Val Thr Thr Ala Val Gly Pro Val Val Leu
 115 120 125
 Glu Arg Ile Ala Pro Ala Val Ala Lys Gly Leu Ala Lys Arg Lys Ala
 130 135 140
 Gln Gly Val Glu Thr Pro Leu Asn Ile Ile Ala Cys Glu Asn Met Val
 145 150 155 160
 Arg Gly Thr Thr Gln Leu Lys Gly His Val Leu Thr Ala Val Ala Asp
 165 170 175
 Glu Asp Lys Ala Trp Val Glu Ala His Val Gly Phe Val Asp Ser Ala
 180 185 190
 Val Asp Arg Ile Val Pro Pro Ser Ala Ser Ala Thr Asn Asp Pro Leu
 195 200 205
 Glu Val Thr Val Glu Thr Phe Ser Glu Trp Ile Val Asp Lys Thr Gln
 210 215 220
 Phe Lys Gly Ala Leu Pro Thr Ile Pro Gly Met Glu Leu Thr Asp Asn
 225 230 235 240
 Leu Met Ala Phe Val Glu Arg Lys Leu Phe Thr Leu Asn Thr Gly His
 245 250 255
 Ala Ile Thr Ala Tyr Leu Gly Lys Leu Ala Gly His Gln Thr Ile Arg
 260 265 270
 Asp Ala Ile Leu Asp Glu Asn Ile Arg Ala Val Val Lys Gly Ala Met
 275 280 285
 Glu Glu Ser Gly Ala Val Leu Ile Lys Arg Tyr Gly Phe Asp Ala Asp
 290 295 300
 Lys His Ala Ala Tyr Ile Gln Lys Ile Leu Gly Arg Phe Glu Asn Pro
 305 310 315 320
 Tyr Leu Lys Asp Asp Val Glu Arg Val Gly Arg Gln Pro Leu Arg Lys
 325 330 335
 Leu Ser Ala Gly Asp Arg Leu Ile Lys Pro Leu Leu Gly Thr Leu Glu
 340 345 350
 Tyr Gly Leu Pro His Ala Asn Leu Val Lys Gly Ile Ala Ala Ala Met
 355 360 365
 His Tyr Arg Ser Glu Gln Asp Pro Gln Ala Ile Glu Leu Ala Gln Leu
 370 375 380
 Ile Asp Asp Lys Gly Ala Gln Ala Ala Leu Ala Gln Ile Ser Gly Leu
 385 390 395 400
 Asp Ala Asn Ser Asp Val Val Ala Glu Ala Val Ser Ala Tyr Asn Ala
 405 410 415
 Thr Lys

<210> 9955

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 9955

Lys Lys Arg Phe Arg Ser Lys Pro Ala His Ile Gly Val Ser Phe Pro
 1 5 10 15
 Val Asn Ser Pro Phe Ser Glu Leu Phe Val Met Lys Glu Val Glu Lys
 20 25 30
 Asn Glu Ile Lys Arg Leu Ser Asp Arg Leu Asp Met Ile Arg His Gln
 35 40 45
 Met Ala Gly Leu Ser Leu Val Asp Ser Ala Glu Lys Tyr Ala Glu Leu

```
<210> 9956
<211> 283
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 9957
<211> 275
<212> PRT
<213> Enterobacter cloacae
```

<400> 9957

```

1 Ile Ser Met Leu Glu Leu Ser Ile Ala Leu Pro Ile Arg Val Gln Asn
  5 10 15
Gly Gly Leu Phe Ile Ser Arg Gly Val Gly Arg His Pro Ala Arg Lys
 20 25 30
Leu Ser Ser Trp Glu Ile Ile Phe Val Glu Lys Gly Thr Leu Thr Ile
 35 40 45
Gln Glu Glu Asn Thr Leu Phe Glu Val Asn Ala Gly Glu Ser Leu Leu
 50 55 60
Leu Trp Pro Lys Arg Arg His Val Gly Val Glu Asp Phe Pro Gly Asp
 65 70 75 80
Leu Lys Phe Tyr Trp Leu His Phe Glu Val Asp Glu Arg Leu Pro Val
 85 90 95
Leu Pro Gly Ala Thr Pro Leu Ser Ile Glu Gln His Cys Ser Val Arg
100 105 110
Asp Pro Gln Tyr Val Ile Ala Leu Phe Arg Gln Phe Leu Ser Glu Gln
115 120 125
Glu Lys Leu Gln Arg Ser Gln Ala Leu Glu Ile Ile Leu Leu Leu Ile
130 135 140
Leu Gln Gln Ile Ser Leu Ser Pro Gly Tyr Glu Asp Lys Ala Asp Asp
145 150 155 160
Ala Gly Ala Ala Met Ala Trp Lys Ala Lys Gln Leu Ile Arg Thr His
165 170 175
Phe His Leu Pro Leu Ser Thr Ser Gln Leu Ala Lys Glu Leu His Cys
180 185 190
Asn Ala Asp Tyr Leu Gly Arg Val Phe Arg Arg Thr Phe His Leu Thr
195 200 205
Leu Thr Glu Ala Ile His Arg Gln Arg Val Arg Ala Ala Glu Lys Leu
210 215 220
Leu Leu Asn Asp Ala Ala Ser Leu Thr Glu Val Ala Ala Arg Cys Gly
225 230 235 240
Phe Asn Asp Val Gly Tyr Phe Arg Gln Ile Phe Ser Lys His Thr Gly
245 250 255
Leu Thr Pro Ala Val Trp Lys Arg Arg Tyr Cys Lys Glu His Ile Asn
260 265 270
Ser Gly
275

```

<210> 9958

<211> 89

<212> PRT

<213> *Enterobacter cloacae*

<400> 9958

```

1 Asn Gly Leu Ile Thr Ser Phe Asp Arg Arg Ser Arg Ser Leu Arg Leu
  5 10 15
Ile Ile Ser His Ile Ile Ala Gly Pro Met Pro Pro Gly Glu Arg Leu
 20 25 30
Ile Met Pro Phe Met Leu Val Met Ala Val Met Ile Phe Ser Leu Ala
 35 40 45
Met Ile Met Pro Gln Arg Leu Pro Gly Arg Pro Ser Leu Glu Arg Leu
 50 55 60
Met Gln Arg Met Ile Phe Gly Phe His Ser Gly Arg Ala Ser Leu Lys
 65 70 75 80
Met Ile Pro Gly Asn Gly Thr Pro
 85

```

<210> 9959

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 9959

Asp Ser Ala Leu Lys Phe Leu Lys Lys Ile Arg Cys Trp Asn Val Tyr
 1 5 10 15
 Ile Arg Pro Gly Asp Leu Met Ile Ser Thr Pro Ile Arg Arg Tyr Gly
 20 25 30
 Ala Ala Ile Leu Met Leu Leu Thr Met Ala Phe Ser Gly Glu Val Leu
 35 40 45
 Ala Lys Thr His Thr Asp Thr Ser Lys Lys Ala His Val Ile Lys
 50 55 60
 Thr Thr Ser Ser Lys Val Ser Ser Lys Gln Glu Tyr Ser Arg Asn Ser
 65 70 75 80
 Ala Lys Ser Ser Ser Leu Pro Asp Leu Arg Lys Tyr Pro Ser Gly Thr
 85 90 95
 Pro Arg Lys Lys Ala Phe Leu Arg Thr Val Met Pro Tyr Ile Lys Ser
 100 105 110
 Gln Asn Ala Ala Ile Thr Ala Asp Arg Asn Trp Leu Ile Ser Lys Gln
 115 120 125
 Tyr Asp Ser Arg Trp Ser Pro Ser Glu Arg Thr Arg Leu Lys Asp Ile
 130 135 140
 Ala Lys Arg Tyr Lys Val Lys Trp Ser Gly Asn Thr Arg Arg Val Pro
 145 150 155 160
 Trp Asn Ser Leu Leu Glu Arg Val Asp Ile Ile Pro Gly Ser Met Val
 165 170 175
 Ala Thr Met Ala Ala Glu Ser Gly Trp Gly Thr Ser Lys Leu Ala
 180 185 190
 Arg Asn Asn Asn Asn Leu Phe Gly Met Lys Cys Val Lys Gly Arg Cys
 195 200 205
 Thr Asn Ala Pro Gly Lys Val Lys Gly Tyr Ser Gln Phe Glu Ser Val
 210 215 220
 Lys Asp Ser Val Asn Ala Tyr Val Val Asn Leu Asn Thr His Pro Ala
 225 230 235 240
 Tyr Ser Ser Phe Arg Lys Ser Arg Ala Gln Leu Arg Lys Ala Asp Gln
 245 250 255
 Glu Val Thr Ala Thr Ala Met Ile His Lys Leu Lys Gly Tyr Ser Thr
 260 265 270
 Gln Gly Gln Arg Tyr Asn Asn Tyr Leu Phe Ser Met Tyr Gln Asp Asn
 275 280 285
 Gln Arg Leu Ile Ala Ala His Met
 290 295

<210> 9960

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 9960

Glu His Asp Ala Arg Phe Glu Ala Gly Leu Met Glu Ser Trp Leu Ile
 1 5 10 15
 Pro Ala Glu Pro Val Thr Phe Val Glu Glu Ile Lys Lys Ser Arg Phe
 20 25 30
 Ile Thr Leu Ala His Thr Asp Gly Val Glu Ala Ala Lys Ala Phe
 35 40 45
 Val Glu Ser Val Arg Ala Gln His Pro Asp Ala Arg His His Cys Val
 50 55 60
 Ala Trp Val Ala Gly Pro Pro Asp Asp Ser Gln Gln Leu Gly Phe Ser
 65 70 75 80
 Asp Asp Gly Glu Pro Ala Gly Thr Ala Gly Lys Pro Met Leu Ser Gln
 85 90 95
 Leu Met Gly Ser Gly Val Gly Glu Ile Thr Ala Val Val Val Arg Tyr

100 105 110
 Tyr Gly Gly Ile Leu Leu Gly Thr Gly Gly Leu Val Lys Ala Tyr Gly
 115 120 125
 Gly Gly Val Gln Gln Ala Leu Asn Leu Leu Ile Thr Thr Arg Lys Thr
 130 135 140
 Pro Leu Thr Glu Tyr Thr Leu Leu Cys Asp Tyr Ala Gln Leu Ser Gly
 145 150 155 160
 Ile Glu Ala Leu Leu Lys Gln Phe Asn Gly Val Ile Ala Gln Ser Asp
 165 170 175
 Tyr Gln Ala Met Val Gln Leu Arg Val Ala Leu Pro Gln Ala Glu Leu
 180 185 190
 Ala Ala Phe Ser Ala Lys Leu Ala Asp Phe Ser Arg Gly Ser Leu Gln
 195 200 205
 Leu Leu Pro Ile Glu Glu
 210 215

<210> 9961

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 9961

Ser Pro Ile Cys Cys Leu Gly Val Leu Arg Ser Leu Arg Cys Trp Cys
 1 5 10 15
 Cys Leu Pro Gln His Ser Gly Val Ser Lys Glu Thr Leu Val Lys Thr
 20 25 30
 Leu Ile Leu Phe Ser Thr Arg Asp Gly Gln Thr Arg Glu Ile Ala Ser
 35 40 45
 Tyr Leu Ala Ser Glu Leu Lys Glu Leu Gly Ile Tyr Ser Asp Val Val
 50 55 60
 Asn Leu Asn Arg Thr Glu Gln Ile Ala Trp Gln Asp Tyr Asp Arg Val
 65 70 75 80
 Val Ile Gly Ala Ser Ile Arg Tyr Gly His Phe His Pro Ala Leu Asp
 85 90 95
 Arg Phe Val Lys Lys His Thr Ala Glu Leu Ala Gln Leu Pro Gly Ala
 100 105 110
 Phe Tyr Ser Val Asn Leu Val Ala Arg Lys Ala Glu Lys Arg Thr Pro
 115 120 125
 Gln Thr Asn Ser Tyr Thr Arg Lys Phe Leu Leu Ser Ser Pro Trp Gln
 130 135 140
 Pro Asp Ile Cys Ser Val Phe Ala Gly Ala Leu Arg Tyr Pro Arg Tyr
 145 150 155 160
 Arg Trp Tyr Asp Arg Phe Met Ile Arg Leu Ile Met Lys Met Thr Gly
 165 170 175
 Gly Glu Thr Asp Thr Arg Lys Glu Val Val Tyr Thr Asp Trp Ala Gln
 180 185 190
 Val Ala Ser Phe Ala Arg Glu Ile Ala His Leu Thr Asp Asp Ala Arg
 195 200 205
 Val Val Phe Thr Arg Val Pro Val Pro Arg Tyr Val Lys
 210 215 220

<210> 9962

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 9962

Phe Thr Glu Gly Lys Val Phe Gln Met Lys Ile Lys Asn Val Ala Leu
 1 5 10 15
 Ala Ile Ala Ala Ala Gly Leu Leu Leu Ser Ser Gln Ser Val Leu Ala
 20 25 30

Ser Ser Asp Ser Gly Val Asn Ala Ser Leu Asp Thr Gly Ala Gly Ser
 35 40 45
 Gln Ser Thr Gly Gly Val Ile Asn Phe Thr Gly Lys Ile Thr Leu Ile
 50 55 60
 Ser Cys Asp Ile Thr Pro Ala Ser Lys Asn Lys Thr Val Asp Leu Gly
 65 70 75 80
 Ala Trp Ala Lys Ser Tyr Phe Asp Asp His Asn Glu Thr Thr Pro Arg
 85 90 95
 Glu Phe Lys Ile Asn Val Glu Asn Cys Pro Glu Thr Val Glu Ser Val
 100 105 110
 Ala Val Leu Phe Asp Gly Thr Lys Asp Thr Val Asn Asp Thr Leu Leu
 115 120 125
 Gln Val Thr Pro Cys Glu Gly Met Ala Thr Gly Val Arg Val Lys Leu
 130 135 140
 Tyr Asn Ser Asp Arg Ser Thr Ala Ile Lys Pro Gly Thr Val Ser Glu
 145 150 155 160
 Thr Thr Ala Pro Asp Asp Glu Gly Asn Ala Glu Leu Thr Phe Tyr Ala
 165 170 175
 Ala Leu Asp Lys Asp Gly Thr Glu Ile Tyr Ala Gly Asp Val Asn Ala
 180 185 190
 Val Ser Asn Phe Leu Met Val Tyr Asn
 195 200

<210> 9963

<211> 235

<212> PRT

<213> Enterobacter cloacae

<400> 9963

Phe His Cys Gln Pro Pro Glu Ile Ile Met Met Lys Arg Leu Ser
 1 5 10 15
 Tyr Ile Met Leu Thr Ala Leu Met Val Ser Ser Ala Ser Val Ser Ala
 20 25 30
 Gly Val Val Met Gly Gly Thr Arg Ile Val Tyr Pro Gln His Ser Lys
 35 40 45
 Glu Val Ala Phe Ser Val Ser Asn Met Glu Ser Ala Val Pro Tyr Leu
 50 55 60
 Ile Gln Ser Trp Val Glu Gly Asp Gly Gln Gly Lys Asn Asn Ala Ala
 65 70 75 80
 Pro Phe Ile Val Thr Pro Pro Leu Phe Arg Leu Asp Pro Glu Gln Thr
 85 90 95
 Asn Thr Leu Arg Ile Gln Tyr Thr Gly Ala Pro Leu Pro Thr Asp Arg
 100 105 110
 Glu Ser Val Phe Trp Leu Asp Ile Lys Ala Ile Ala Pro Lys Pro Lys
 115 120 125
 Glu Ser Ser Asn Glu Leu Gln Val Asn Val Lys Ser Lys Phe Lys Ile
 130 135 140
 Phe Tyr Arg Pro Asp Asn Leu Lys Gly Asp Ala Ala Thr Ala Trp Gln
 145 150 155 160
 Lys Ile Thr Phe Ser Arg Thr Gly Lys Gly Leu Lys Ala Ala Asn Pro
 165 170 175
 Thr Pro Tyr Tyr Val Ser Phe Tyr Arg Leu Thr Val Gly Gly His Lys
 180 185 190
 Ile Glu Gln Pro Gly Met Ile Gly Pro Gly Glu Thr Arg Glu Trp Pro
 195 200 205
 Val Ser Ala Ser Gly Gly Val Ser Trp Ser Ala Ile Asn Asp Phe Gly
 210 215 220
 Ala Ile Thr Ala Thr His Thr Gln Pro Leu
 225 230 235

<210> 9964

<211> 204

<212> PRT

<213> Enterobacter cloacae

<400> 9964

Ala	Met	Lys	Leu	Ile	Gly	Ser	Tyr	Thr	Ser	Pro	Phe	Val	Arg	Lys	Ile
1			5					10					15		
Ser	Ile	Leu	Leu	Leu	Glu	Lys	Gly	Ile	Glu	Phe	Glu	Phe	Val	Asn	Glu
		20					25					30			
Gln	Pro	Tyr	Asn	Ala	Glu	Asn	Gly	Val	Ala	Gln	Tyr	Asn	Pro	Leu	Gly
	35					40					45				
Lys	Val	Pro	Ala	Leu	Val	Thr	Asp	Glu	Gly	Asp	Tyr	Trp	Phe	Asp	Ser
	50					55					60				
Pro	Ile	Ile	Ala	Glu	Tyr	Ile	Glu	Leu	Leu	Gly	Val	Ala	Pro	Ala	Met
65				70						75				80	
Leu	Pro	Ala	Asp	Pro	Lys	Ala	Ala	Leu	Ala	Met	Lys	Gln	Ile	Glu	Ala
			85					90					95		
Leu	Ala	Asp	Gly	Ile	Met	Asp	Ala	Ala	Leu	Thr	Ser	Val	Arg	Glu	Gln
			100					105					110		
Ala	Arg	Pro	Ala	Ala	Gln	Gln	Ser	Glu	Asn	Glu	Leu	Leu	Arg	Gln	Arg
		115					120					125			
Glu	Lys	Ile	Ser	Arg	Ser	Leu	Asp	Met	Cys	Glu	Gln	Leu	Ile	Arg	Asp
	130					135					140				
Gly	Lys	Ile	Gln	Ser	Asp	Ser	Leu	Asn	Leu	Ala	Thr	Ile	Ala	Ile	Ala
145				150						155				160	
Cys	Ala	Ile	Gly	Tyr	Leu	Asn	Phe	Arg	Arg	Val	Ser	Pro	Gly	Trp	Cys
			165					170						175	
Val	Asp	Arg	Pro	Leu	Leu	Val	Lys	Leu	Ala	Glu	Thr	Leu	Phe	Gln	Arg
			180					185					190		
Glu	Ser	Phe	Ala	Arg	Thr	Glu	Pro	Pro	Lys	Ala					
	195						200								

<210> 9965

<211> 622

<212> PRT

<213> Enterobacter cloacae

<400> 9965

Ser	Ala	Val	Ser	Gly	Asp	Asp	Val	Glu	Met	Ile	Ile	Ala	Thr	Ala	Gly
1			5					10					15		
His	Val	Asp	His	Gly	Lys	Thr	Thr	Leu	Leu	Gln	Ala	Ile	Thr	Gly	Val
		20						25				30			
Asn	Ala	Asp	Arg	Leu	Pro	Glu	Glu	Lys	Lys	Arg	Gly	Met	Thr	Ile	Asp
	35					40					45				
Leu	Gly	Tyr	Ala	Tyr	Trp	Pro	Gln	Pro	Asp	Gly	Arg	Val	Leu	Gly	Phe
	50					55					60				
Ile	Asp	Val	Pro	Gly	His	Glu	Lys	Phe	Leu	Ser	Asn	Met	Leu	Ala	Gly
65				70						75				80	
Val	Gly	Gly	Ile	Asp	His	Ala	Leu	Leu	Val	Val	Ala	Cys	Asp	Asp	Gly
			85					90					95		
Val	Met	Ala	Gln	Thr	Arg	Glu	His	Leu	Ala	Ile	Leu	Gln	Leu	Thr	Gly
			100					105					110		
Asn	Pro	Gln	Leu	Thr	Val	Ala	Leu	Thr	Lys	Ala	Asp	Arg	Val	Asp	Glu
	115						120					125			
Ala	Arg	Ile	Asp	Glu	Val	Arg	Gln	Glu	Val	Leu	Ala	Ala	Leu	Ser	Glu
	130					135					140				
Tyr	Gly	Phe	Lys	Asp	Val	Ala	Leu	Phe	Val	Thr	Val	Ala	Thr	Glu	Gly
145				150						155				160	
Arg	Gly	Ile	Asp	Ala	Leu	Arg	Asn	His	Leu	Gln	Gln	Ile	Pro	Ser	Arg
			165					170						175	
Glu	Gln	Ala	Ser	His	His	Arg	Phe	Arg	Leu	Ala	Ile	Asp	Arg	Ala	Phe

```
<210> 9966
<211> 293
<212> PRT
<213> Enterobacter cloacae
```

<400> 9966

Asp Arg Glu Leu Lys His Thr Leu Arg Tyr His Gln Gly Ala Ile Asn
 1 5 10 15
 Arg Ser Tyr Leu Met Ser Ile Lys Glu Ser Glu Met Thr Gln Glu Lys
 20 25 30
 Glu Arg Pro Ala Gly Ser Gln Ser Leu Phe Arg Gly Leu Met Leu Ile
 35 40 45
 Glu Ile Leu Ser Asn Tyr Pro Asn Gly Cys Pro Leu Ala His Leu Ser
 50 55 60
 Glu Leu Ala Gly Leu Asn Lys Ser Thr Val His Arg Leu Leu Gln Gly
 65 70 75 80
 Leu Gln Ser Cys Gly Tyr Val Thr Pro Ala Pro Ala Ala Gly Ser Tyr
 85 90 95
 Arg Leu Thr Thr Lys Phe Ile Ala Val Gly Gln Lys Ala Leu Ser Ser
 100 105 110
 Leu Asn Ile Ile His Val Ala Ala Pro His Leu Glu Ala Leu Asn Ile
 115 120 125
 Ala Thr Gly Glu Thr Val Asn Phe Ser Ser Arg Glu Asp Asp His Ala
 130 135 140
 Ile Leu Ile Tyr Lys Leu Glu Pro Thr Thr Gly Met Leu Arg Thr Arg
 145 150 155 160
 Ala Tyr Ile Gly Gln His Met Pro Leu Tyr Cys Ser Ala Met Gly Lys
 165 170 175
 Ile Tyr Met Ala Phe Gly His Gln Asp Tyr Val Ala Ser Tyr Trp Glu
 180 185 190
 Ser His Gln Glu Gln Ile Gln Pro Leu Thr Arg Asn Thr Ile Thr Glu
 195 200 205
 Leu Ser Ala Met Tyr Asp Glu Leu Ala Glu Ile Arg Asp His Ser Met
 210 215 220
 Ala Met Asp Lys Glu Glu Asn Glu Leu Gly Val Ser Cys Ile Ala Val
 225 230 235 240
 Pro Val Phe Asp Ile His Gly Arg Val Pro Tyr Ala Ile Ser Ile Ser
 245 250 255
 Leu Ser Thr Ser Arg Met Lys Gln Val Gly Glu Lys Asn Leu Leu Lys
 260 265 270
 Pro Leu Arg Asp Thr Ala Glu Ala Ile Ser Lys Glu Leu Gly Phe Asn
 275 280 285
 Val Arg Glu Ala
 290

<210> 9967

<211> 153

<212> PRT

<213> *Enterobacter cloacae*

<400> 9967

Leu Met Asn Gln Phe Ile Leu Ala Asp Pro Glu Lys Cys Ile Gly Cys
 1 5 10 15
 Arg Thr Cys Glu Val Ala Cys Met Met Ser His Gln Ser Ser Ala Thr
 20 25 30
 Pro Val Ala Phe Thr Ser Arg Ile Arg Val Val Lys Gly Glu Thr Phe
 35 40 45
 Thr Thr Ala Val Gly Cys His Gln Cys Glu Asp Ala Pro Cys Ala Asn
 50 55 60
 Val Cys Pro Thr Gly Ala Ile His Arg Ala Ala Gly Ala Trp Leu Val
 65 70 75 80
 Lys Gln Ser Arg Cys Ile Gly Cys Lys Ser Cys Met Val Ala Cys Pro
 85 90 95
 Phe Gly Ala Met Gln Val Arg Val Val Glu Asp Arg Val Gln Ala Leu
 100 105 110
 Lys Cys Asp Leu Cys Ala His Arg Glu Gly Gly Pro Ala Cys Val Glu

```
<210> 9968
<211> 506
<212> PRT
<213> Enterobacter cloacae
```

<400> 9968															
1	Thr	Ala	Phe	Met	Pro	Gly	Lys	Arg	Cys	Ala	Thr	Gly	His	Phe	Cys
5				5					10					15	
1	Gln	Arg	Ser	His	His	Met	Tyr	Ile	Gly	Ile	Asp	Leu	Gly	Thr	Ser
20				20					25					30	
1	Val	Lys	Ala	Ile	Leu	Leu	Ser	Glu	Gln	Gly	Asp	Val	Leu	Ala	Thr
35				35				40					45		
1	Thr	Glu	Lys	Leu	Gln	Val	Ser	Arg	Pro	His	Pro	Leu	Trp	Ser	Glu
50				50			55					60			
1	Asp	Pro	Glu	Gln	Trp	Trp	Gln	Ala	Thr	Asp	Arg	Ala	Met	Thr	Ala
65				65		70					75				80
1	Gly	Glu	Gln	His	Ser	Leu	Arg	Asp	Val	Lys	Ala	Leu	Gly	Ile	Ala
85				85						90					95
1	Gln	Met	His	Gly	Ala	Thr	Leu	Leu	Asp	Ser	Gln	His	Arg	Val	Leu
100				100					105					110	
1	Pro	Ala	Ile	Leu	Trp	Asn	Asp	Gly	Arg	Cys	Ala	Glu	Glu	Cys	Ala
115				115				120					125		
1	Leu	Glu	Glu	Arg	Val	Pro	Ala	Ser	Arg	Glu	Ile	Thr	Gly	Asn	Leu
130				130			135					140			Met
1	Met	Pro	Gly	Phe	Thr	Ala	Pro	Lys	Leu	Leu	Trp	Val	Gln	Arg	His
145				145		150					155				160
1	Pro	Asp	Ile	Phe	Arg	Gln	Val	Ala	Lys	Val	Leu	Leu	Pro	Lys	Asp
165				165						170					175
1	Leu	Arg	Phe	Arg	Met	Thr	Gly	Asp	Phe	Ala	Ser	Asp	Met	Ser	Asp
180				180					185					190	
1	Ala	Gly	Thr	Met	Trp	Leu	Asp	Val	Ala	Lys	Arg	Asp	Trp	Ser	Glu
195				195				200					205		Ala
1	Met	Leu	Asp	Ala	Cys	Gln	Leu	Thr	Arg	Asp	His	Met	Pro	Ala	Leu
210				210			215					220			Phe
1	Glu	Gly	Ser	Glu	Ile	Thr	Gly	Ala	Leu	Gln	Pro	Ser	Val	Ala	Glu
225				225		230					235				Arg
1	Trp	Asn	Met	Pro	Ala	Val	Pro	Val	Ile	Ala	Gly	Gly	Gly	Asp	Asn
245				245						250					255
1	Ala	Gly	Ala	Val	Gly	Val	Gly	Met	Val	Glu	Ala	Gly	Gln	Ala	Met
260				260					265					270	
1	Ser	Leu	Gly	Thr	Ser	Gly	Val	Tyr	Phe	Ala	Val	Ser	Asp	Gly	Tyr
275				275				280					285		Arg
1	Ser	Asn	Pro	Gly	Ser	Ala	Val	His	Ser	Phe	Cys	His	Ala	Leu	Pro
290				290			295					300			Gly
1	Lys	Trp	His	Leu	Met	Ser	Val	Met	Leu	Ser	Ala	Ala	Ser	Cys	Leu
305				305		310					315				320
1	Trp	Ala	Ala	Lys	Leu	Thr	Gly	Met	Ala	Asp	Val	Pro	Ala	Leu	Ile
325				325						330					335
1	Ala	Ala	Gln	Gln	Ala	Asp	Asp	Asn	Ala	Gly	Ala	Val	Trp	Phe	Le

385					390					395				400
Val	His	Asp	Cys	Gly	Leu	Thr	Pro	Ser	Ser	Ile	Thr	Leu	Ile	Gly
				405					410					415
Gly	Ala	Arg	Ser	Ser	Tyr	Trp	Arg	Gln	Met	Leu	Ser	Asp	Ile	Ser
			420					425					430	
Leu	Gln	Leu	Asp	Tyr	Arg	Thr	Gly	Gly	Asp	Val	Gly	Pro	Ala	Leu
		435					440				445			
Ala	Ala	Arg	Leu	Ala	Gln	Ile	Ala	Leu	Asn	Pro	Asp	Lys	Pro	Leu
	450				455					460				
Gln	Leu	Leu	Pro	Gln	Leu	Ser	Leu	Glu	Gln	Gln	His	Arg	Pro	Asp
465				470					475					480
Lys	Asn	His	Ala	Arg	Tyr	Ala	Glu	Arg	Arg	Asp	Val	Phe	Arg	Lys
				485				490						495
Tyr	Arg	Gln	Leu	Leu	Pro	Leu	Met	Ser						
			500					505						

<210> 9969

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 9969

Asn	His	Thr	Tyr	Pro	Ala	Arg	Asn	Thr	Met	Gln	Lys	Phe	Asp	Thr	Lys
1				5					10					15	
Thr	Phe	Gln	Gly	Leu	Ile	Leu	Thr	Leu	Gln	Asp	Tyr	Trp	Ala	Ser	Gln
			20					25					30		
Gly	Cys	Thr	Ile	Val	Gln	Pro	Leu	Asp	Met	Glu	Val	Gly	Ala	Gly	Thr
		35					40					45			
Ser	His	Pro	Met	Thr	Ser	Leu	Arg	Ala	Leu	Gly	Pro	Glu	Pro	Met	Ala
	50					55					60				
Thr	Ala	Tyr	Val	Gln	Pro	Ser	Arg	Arg	Pro	Thr	Asp	Gly	Arg	Tyr	Gly
65				70					75					80	
Glu	Asn	Pro	Asn	Arg	Leu	Gln	His	Tyr	Tyr	Gln	Phe	Gln	Val	Val	Ile
			85					90						95	
Lys	Pro	Ser	Pro	Asp	Asn	Ile	Gln	Glu	Leu	Tyr	Leu	Gly	Ser	Leu	Lys
			100					105					110		
Glu	Leu	Gly	Met	Asp	Pro	Thr	Ile	His	Asp	Ile	Arg	Phe	Val	Glu	Asp
		115					120					125			
Asn	Trp	Glu	Asn	Pro	Thr	Leu	Gly	Ala	Trp	Gly	Leu	Gly	Trp	Glu	Val
	130					135					140				
Trp	Leu	Asn	Gly	Met	Glu	Val	Thr	Gln	Phe	Thr	Tyr	Phe	Gln	Gln	Val
145				150					155					160	
Gly	Gly	Leu	Glu	Cys	Lys	Pro	Ile	Thr	Gly	Glu	Ile	Thr	Tyr	Gly	Leu
			165					170						175	
Glu	Arg	Leu	Ala	Met	Tyr	Ile	Gln	Gly	Val	Asp	Ser	Val	Tyr	Asp	Leu
		180						185					190		
Val	Trp	Ser	Asp	Gly	Pro	Leu	Gly	Lys	Thr	Thr	Tyr	Gly	Asp	Val	Phe
		195					200					205			
His	Gln	Asn	Glu	Val	Glu	Gln	Ser	Thr	Tyr	Asn	Phe	Glu	Tyr	Ala	Asp
	210					215					220				
Val	Asp	Phe	Leu	Phe	Thr	Cys	Phe	Glu	Gln	Tyr	Glu	Lys	Glu	Ala	Gln
225					230				235					240	
Gln	Leu	Leu	Ala	Leu	Glu	Thr	Pro	Leu	Pro	Leu	Pro	Ala	Tyr	Glu	Arg
			245					250						255	
Ile	Leu	Lys	Ala	Ala	His	Ser	Phe	Asn	Leu	Leu	Asp	Ala	Arg	Lys	Ala
		260					265					270			
Ile	Ser	Val	Thr	Glu	Arg	Gln	Arg	Tyr	Ile	Leu	Arg	Ile	Arg	Thr	Leu
	275						280					285			
Thr	Lys	Ala	Val	Ala	Glu	Ala	Tyr	Tyr	Ala	Ser	Arg	Glu	Ala	Leu	Gly
	290					295					300				
Phe	Pro	Met	Cys	Asn	Arg	Asn	Lys								

305

310

<210> 9970

<211> 693

<212> PRT

<213> *Enterobacter cloacae*

<400> 9970

Glu	Ala	Ala	Met	Ser	Glu	Lys	Thr	Phe	Leu	Val	Glu	Ile	Gly	Thr	Glu
1				5					10					15	
Glu	Leu	Pro	Pro	Lys	Ala	Leu	Arg	Ser	Leu	Ala	Glu	Ser	Phe	Ala	Ala
		20						25					30		
Asn	Val	Thr	Ala	Glu	Leu	Asp	Asn	Ala	Gly	Leu	Ala	His	Gly	Lys	Ile
		35				40						45			
Glu	Trp	Phe	Ala	Ala	Pro	Arg	Arg	Leu	Ala	Leu	Lys	Val	Ala	Asn	Leu
	50					55					60				
Ala	Ala	Ser	Gln	Pro	Asp	Arg	Glu	Val	Glu	Lys	Arg	Gly	Pro	Ala	Ile
65					70					75					80
Ala	Gln	Ala	Phe	Asp	Ala	Glu	Gly	Lys	Pro	Ser	Lys	Ala	Ala	Glu	Gly
				85					90					95	
Trp	Ala	Arg	Gly	Cys	Gly	Ile	Thr	Val	Asp	Gln	Ala	Glu	Arg	Leu	Thr
			100					105					110		
Thr	Asp	Lys	Gly	Glu	Trp	Leu	Leu	Tyr	Arg	Ala	His	Val	Lys	Gly	Glu
		115					120					125			
Ser	Ala	Glu	Ala	Leu	Leu	Pro	Asp	Met	Ile	Ala	Thr	Ser	Leu	Ala	Lys
		130				135					140				
Leu	Pro	Ile	Pro	Lys	Leu	Met	Arg	Trp	Gly	Ala	Ser	Asp	Val	His	Phe
145					150					155					160
Val	Arg	Pro	Val	His	Thr	Val	Thr	Leu	Leu	Leu	Gly	Asp	Thr	Val	Ile
				165					170					175	
Pro	Ala	Thr	Ile	Leu	Gly	Val	Ala	Ser	Asp	Arg	Val	Ile	Arg	Gly	His
			180					185					190		
Arg	Phe	Met	Gly	Glu	Pro	Glu	Phe	Thr	Ile	Asp	Asn	Ala	Asp	Gln	Tyr
		195					200					205			
Pro	Gln	Ile	Leu	Leu	Glu	Arg	Gly	Lys	Val	Ile	Ala	Asp	Tyr	Glu	Gln
		210				215					220				
Arg	Lys	Ala	Lys	Ile	Lys	Ala	Asp	Ala	Glu	Glu	Ala	Ala	Arg	Lys	Ile
225					230					235					240
Gly	Gly	Asn	Ala	Asp	Leu	Ser	Asp	Ser	Leu	Leu	Glu	Glu	Val	Thr	Ser
				245					250					255	
Leu	Val	Glu	Trp	Pro	Val	Val	Leu	Thr	Ala	Lys	Phe	Glu	Glu	Lys	Phe
			260					265					270		
Leu	Ala	Val	Pro	Ala	Glu	Ala	Leu	Val	Tyr	Thr	Met	Lys	Gly	Asp	Gln
		275					280					285			
Lys	Tyr	Phe	Pro	Val	Tyr	Ala	Asn	Asp	Gly	Lys	Leu	Leu	Pro	Asn	Phe
		290				295					300				
Ile	Phe	Val	Ala	Asn	Ile	Glu	Ser	Lys	Asp	Pro	Ser	Gln	Ile	Ile	Ser
305					310					315					320
Gly	Asn	Glu	Lys	Val	Val	Arg	Pro	Arg	Leu	Ala	Asp	Ala	Glu	Phe	Phe
				325					330					335	
Phe	Asn	Thr	Asp	Arg	Lys	Lys	Arg	Leu	Glu	Asp	Asn	Leu	Pro	Arg	Leu
			340					345					350		
Gln	Thr	Val	Leu	Phe	Gln	Gln	Gln	Leu	Gly	Thr	Leu	Arg	Asp	Lys	Thr
		355					360					365			
Asp	Arg	Ile	Ala	Glu	Leu	Ser	Gly	Trp	Ile	Ala	Arg	Glu	Ile	Gly	Ala
						375					380				
Asp	Val	Asn	His	Ala	Thr	Arg	Ala	Gly	Leu	Leu	Ser	Lys	Cys	Asp	Leu
385					390					395					400
Met	Thr	Asn	Met	Val	Phe	Glu	Phe	Thr	Asp	Thr	Gln	Gly	Val	Met	Gly
				405					410					415	
Met	His	Tyr	Ala	Arg	His	Asp	Gly	Glu	Ala	Glu	Asp	Val	Ala	Val	Ala


```

      420      425      430
Leu Asn Glu Gln Tyr Gln Pro Arg Phe Ala Gly Asp Asp Leu Pro Ser
      435      440      445
Asn Pro Val Ala Cys Ala Val Ala Ile Ala Asp Lys Met Asp Thr Leu
      450      455      460
Ala Gly Ile Phe Gly Ile Gly Gln His Pro Lys Gly Asp Lys Asp Pro
465      470      475      480
Phe Ala Leu Arg Arg Ala Ala Leu Gly Val Leu Arg Ile Ile Val Glu
      485      490      495
Lys Asn Leu Asn Leu Asp Leu Gln Thr Leu Thr Glu Glu Ala Val Arg
      500      505      510
Leu Tyr Gly Asp Lys Leu Thr Asn Ala Lys Val Val Asp Asp Val Ile
      515      520      525
Asp Phe Met Leu Gly Arg Phe Arg Ala Trp Tyr Gln Asp Glu Gly Tyr
      530      535      540
Ser Val Asp Thr Ile Gln Ala Val Leu Ala Arg Arg Pro Thr Arg Pro
545      550      555      560
Ala Asp Phe Asp Ala Arg Met Lys Ala Val Ser His Phe Arg Thr Leu
      565      570      575
Glu Ala Ala Ser Ala Leu Ala Ala Ala Asn Lys Arg Val Ser Asn Ile
      580      585      590
Leu Ala Lys Ser Asp Glu Thr Leu Asn Asp Arg Val Asn Ala Ala Thr
      595      600      605
Leu Lys Glu Pro Glu Glu Ile Ser Leu Ala Met Gln Val Val Val Leu
      610      615      620
Arg Asp Lys Leu Glu Pro Tyr Phe Ala Glu Gly Arg Tyr Gln Glu Ala
625      630      635      640
Leu Val Glu Leu Ala Glu Leu Arg Asp Val Ile Asp Ala Phe Phe Glu
      645      650      655
Lys Val Met Val Asn Val Glu Asp Lys Glu Leu Arg Ile Asn Arg Leu
      660      665      670
Ser Met Leu Glu Lys Leu Arg Glu Leu Phe Leu Arg Val Ala Asp Ile
      675      680      685
Ser Leu Leu Gln
      690

```

<210> 9971

<211> 454

<212> PRT

<213> Enterobacter cloacae

<400> 9971

```

Leu Glu Val Lys Lys Thr Lys Gly Arg Met Met Asp Ser Leu Ala Ser
1      5      10      15
Leu Tyr Lys Asn His Ile Val Thr Leu Gln Glu Arg Thr Arg Asp Val
      20      25      30
Leu Ala Arg Phe Lys Leu Asp Ala Leu Leu Ile His Ser Gly Glu Leu
      35      40      45
Met Asn Thr Phe Leu Asp Asp His Ala Tyr Pro Phe Lys Val Asn Pro
      50      55      60
Gln Phe Lys Ala Trp Val Pro Val Thr Gln Val Pro Asn Cys Trp Leu
65      70      75      80
Leu Val Asp Gly Val Asn Lys Pro Lys Leu Trp Phe Tyr Leu Pro Val
      85      90      95
Asp Tyr Trp His Asn Val Glu Pro Leu Pro Thr Ser Phe Trp Thr Glu
      100      105      110
Glu Ile Asp Val Ile Ala Leu Pro Lys Ala Asp Gly Ile Gly Ser Gln
      115      120      125
Leu Pro Ala Ala Arg Gly Asn Ile Gly Tyr Ile Gly Pro Val Pro Glu
      130      135      140
Arg Ala Leu Gly Leu Asp Ile Pro Ala Asp Lys Leu Asn Pro Lys Gly

```

```

145          150          155          160
Val Leu Asp Tyr Leu His Tyr Tyr Arg Ala Tyr Lys Thr Asp Tyr Glu
165          170          175
Leu Tyr Cys Met Arg Glu Ala Gln Lys Thr Ala Val Asn Gly His Arg
180          185          190
Ala Ala His Glu Ala Phe Gln Ser Gly Met Ser Glu Phe Asp Ile Asn
195          200          205
Gln Ala Tyr Leu Thr Ala Thr Gly His Arg Asp Thr Asp Val Pro Tyr
210          215          220
Ser Asn Ile Val Ala Leu Asn Glu His Ala Ser Val Leu His Tyr Thr
225          230          235
Lys Leu Asp His Gln Val Pro Ala Glu Met Arg Ser Phe Leu Leu Asp
245          250          255
Ala Gly Ala Glu Tyr Asn Gly Tyr Ala Ala Asp Leu Thr Arg Thr Trp
260          265          270
Ala Ala Asn Ala Asp Thr Asp Phe Ala Gln Leu Ile Lys Asp Val Asn
275          280          285
Asp Glu Gln Leu Ala Leu Ile Gly Thr Met Lys Ala Gly Thr Ser Tyr
290          295          300
Val Asp Tyr His Ile Gln Phe His Gln Arg Ile Ala Lys Leu Leu Arg
305          310          315
Lys His Gln Ile Ile Lys Asp Met Ser Glu Glu Ala Met Val Glu Asn
325          330          335
Asp Leu Thr Gly Pro Phe Met Pro His Gly Ile Gly His Pro Leu Gly
340          345          350
Leu Gln Val His Asp Val Ala Gly Phe Met Gln Asp Asp Thr Gly Thr
355          360          365
His Leu Ala Ala Pro Ser Lys Tyr Pro Tyr Leu Arg Cys Thr Arg Val
370          375          380
Leu Ala Pro Arg Met Val Leu Thr Ile Glu Pro Gly Ile Tyr Phe Ile
385          390          395
Glu Ser Leu Leu Ala Pro Trp Arg Glu Gly Gln Phe Ser Lys His Phe
405          410          415
Asn Trp Glu Lys Ile Glu Ala Leu Lys Pro Tyr Gly Gly Ile Arg Ile
420          425          430
Glu Asp Asn Val Val Ile His Glu Asn Ser Ile Glu Asn Met Thr Arg
435          440          445
Asp Leu Lys Leu Ala
450

```

<210> 9972

<211> 848

<212> PRT

<213> Enterobacter cloacae

<400> 9972

```

Ala Gly Arg Leu Leu Met Ile Leu Val Pro Ser Pro Pro Pro Thr Pro
1          5          10          15
Ser Leu Phe Lys Ile Met Pro Phe Arg Leu Phe Arg Tyr Ala Pro Leu
20          25          30
Ser Val Leu Leu Leu Ser Phe Ser Arg Ala Gly Met Ala Glu Asp Tyr
35          40          45
Phe Asp Pro Ala Ala Leu Glu Leu Ser Ser Thr Glu Gln Lys Thr Ala
50          55          60
Asp Leu His Tyr Phe Ser Glu Lys Gly Gly Gln Met Pro Gly Thr Trp
65          70          75          80
Leu Val Thr Leu Glu Ile Asn Gly Arg Glu Glu Arg His Gln Glu Ile
85          90          95
Thr Phe Val Asn Glu Lys Gly Ser Leu Gln Pro Val Phe Ser Val Ser
100          105          110
Leu Leu Glu Ala Leu Ser Val Asn Val Gly Ala Ile Pro Ala Phe Ser

```


Leu Ala Asn Arg Asn Leu Asn Tyr Ser Val Gln Gln Ser Lys Ala Ser
 610 615 620
 Glu Gly Gln Ala Asp Ser Thr Ser Leu Ala Leu Gln Tyr Asn Gly Gly
 625 630 635 640
 Tyr Gly Asn Val Ser Leu Gly Tyr Asp His Ser Arg Ser Gly Ser Asn
 645 650 655
 Ala Ser Leu Gly Leu Ala Gly Gly Val Ile Ala Thr Gln Tyr Gly Val
 660 665 670
 Thr Leu Ser Glu Pro Leu Gly Asp Thr Val Ala Leu Leu Arg Val Pro
 675 680 685
 Gly Ala Ala Asn Val Glu Pro Glu Gly Tyr Asn Gly Ile His Thr Asp
 690 695 700
 Ser Arg Gly Tyr Ala Val Met Pro Thr Leu Ser Ala Tyr Arg Lys Asn
 705 710 715 720
 Thr Val Ser Leu Asp Thr Ala Thr Leu Gly Glu Asn Val Asp Val Glu
 725 730 735
 Gln Ser Gly Leu Thr Leu Ile Pro Thr Ser Gly Ala Val Val Leu Ala
 740 745 750
 Asn Tyr Lys Thr His Ile Gly Tyr Arg Val Leu Phe Ser Leu Arg Tyr
 755 760 765
 His Gly Glu Pro Leu Pro Phe Gly Ala Gln Ala Glu Val Val Glu Gln
 770 775 780
 Asn Arg His Ser Ala Asn Arg Ser Met Val Ala Asp Gly Gly Gln Ala
 785 790 795 800
 Tyr Leu Ser Gly Val Pro Glu Arg Gly Thr Leu Arg Val Thr Trp Tyr
 805 810 815
 Glu Asn Gly Glu Gln Gln Cys Gln Thr Pro Phe Arg Leu Gly Lys
 820 825 830
 Ala His Met Ala Pro Gly Ile Ala Thr Leu Ser Leu Glu Cys His
 835 840 845

<210> 9973

<211> 368

<212> PRT

<213> Enterobacter cloacae

<400> 9973

Arg Asn Ile Met Arg Arg Phe Ile His Trp Phe Phe Tyr Leu Ser Leu
 1 5 10 15
 Leu Ser Leu Phe Gly Met Leu Ser Phe His Ala His Ala Gln Thr Ser
 20 25 30
 Thr Cys Arg Thr Thr Arg Asp Gln Trp Val Val Gln Val Pro Tyr Ala
 35 40 45
 Ile Gly Tyr Ala Pro Gly Thr Ser Asp Trp Thr Pro Ile Ser Ala Pro
 50 55 60
 Ile Gln Ser Thr Gly Ala Asp Phe Tyr Ser Cys Asp Gly Gly Asn Asp
 65 70 75 80
 Pro Trp Arg Ser Ile Gly Phe Val Glu Leu Asp Asn Pro Val Gly Thr
 85 90 95
 Val Val Gly Glu Asp Gly Ala Ser Arg His Val Tyr Lys Thr Gln Ile
 100 105 110
 Asp Gly Ile Gly Tyr Ala Leu Gly Phe Arg Glu Gln Gln Tyr Cys Gly
 115 120 125
 Ala Asp Ala Val Arg Tyr Ile Asp Gly Thr Ser Pro Val Asp Gly Asn
 130 135 140
 Glu Ser Arg Arg Ile Cys Asp Ala Ser Gln Asn Pro Ala Phe Ala Ser
 145 150 155 160
 Ala Pro Thr Tyr Lys Leu Gln Phe Trp Val Val Phe Tyr Lys Ile Pro
 165 170 175
 Thr Thr Ser Pro Met Pro Asp Asp Asn Ala Asn Ser Gln Glu Gln Asn
 180 185 190

Val	Gly	Ser	Leu	Ile	Leu	Gln	Ala	Gly	Glu	Asn	Gln	Ala	Ser	Ala	Thr		
	195						200					205					
Asn	Val	Ala	Thr	Pro	Val	Gln	Ile	His	Leu	Ala	Ser	Phe	Thr	Val	Arg		
	210					215						220					
Arg	Thr	Ser	Cys	Ser	Val	Gly	Ser	Arg	Ser	Ile	Leu	Val	Pro	Met	Gly		
	225				230					235					240		
Ser	Val	Ser	Gln	Arg	Glu	Phe	His	Gly	Ile	Gly	Phe	Arg	Ala	Gly	Gly		
				245					250					255			
Gly	Arg	Phe	Ser	Ile	Pro	Val	Thr	Cys	Glu	Asn	Asn	Thr	Ala	Val	Lys		
			260					265					270				
Met	Gly	Phe	Phe	Gly	Asp	Thr	Thr	Pro	Gly	Asn	Asp	Arg	Ala	Leu	Ala		
	275						280					285					
Leu	Thr	Lys	Gln	Glu	Asp	Ser	Ala	Ser	Gly	Val	Gly	Ile	Glu	Leu	Leu		
	290					295						300					
Tyr	Gly	Asp	Asn	Thr	Gly	Ser	Val	Gln	Gly	Gln	Val	Val	Pro	Trp	Asn		
	305				310					315				320			
Thr	Pro	Gln	Val	Ser	Ala	Leu	Gly	Gln	Val	Gly	Asp	Asn	Gln	Thr	Gln		
				325				330						335			
Thr	Phe	Trp	Phe	Asp	Ala	His	Tyr	Ile	Gln	Thr	Glu	Ala	Asn	Val	Thr		
			340					345					350				
Ala	Gly	Lys	Ala	Asp	Ala	Met	Ala	Thr	Phe	Asn	Leu	Ile	Tyr	Asn			
	355						360					365					

<210> 9974

<211> 548

<212> PRT

<213> Enterobacter cloacae

<400> 9974

Ile	Trp	Arg	Arg	Ser	Pro	Ser	Pro	Ala	Pro	Ser	Ala	Thr	Ser	Ile	Ser		
1				5					10					15			
Ala	Ala	Ser	Arg	Arg	Ala	Gly	Ala	Trp	Ile	Val	Arg	Cys	Trp	Ser	Asn		
			20					25					30				
Trp	Arg	Arg	Arg	Ser	Ser	Ser	Ala	Lys	Val	Ser	Pro	Gly	Leu	Asn	His		
			35				40					45					
Gln	Arg	Leu	Asp	Ala	Gly	Tyr	Asn	Thr	Ser	Trp	Arg	Glu	Ala	Val	Gln		
	50					55					60						
Ser	Pro	His	Met	Leu	Thr	Pro	Ser	Pro	Val	Gly	Arg	Gly	Glu	Asp	Ile		
	65				70					75				80			
Tyr	Ser	Pro	Gly	Ala	Phe	Met	Thr	Thr	His	Ser	Leu	Tyr	Ser	Gln			
			85						90				95				
Ile	Pro	Ala	Thr	Asp	Arg	Leu	Leu	Arg	Asp	Pro	Arg	Ile	Thr	Ala	Val		
			100					105					110				
Leu	Glu	Gln	Phe	Gly	His	Thr	Ala	Thr	Val	Asp	Met	Leu	Arg	Gln	Leu		
			115				120					125					
Gln	Asp	Asp	Ala	Arg	Arg	His	Ile	Gln	Ala	Glu	Asn	Ala	Leu	Pro	Gly		
	130					135						140					
Trp	Cys	Glu	Ala	Trp	Ala	Gln	Glu	Val	Glu	Arg	Arg	Leu	Ser	Lys	His		
	145				150					155				160			
Ala	Gln	Ser	Ala	Leu	Arg	Pro	Val	Ile	Asn	Leu	Thr	Gly	Thr	Val	Leu		
				165					170					175			
His	Thr	Asn	Leu	Gly	Arg	Ala	Gln	Gln	Ala	Glu	Glu	Ala	Ile	Asp	Ala		
			180					185					190				
Val	Thr	Arg	Ala	Met	Arg	Ser	Pro	Val	Thr	Leu	Glu	Tyr	Asp	Leu	Asp		
			195				200					205					
Gly	Ala	Gly	Arg	Gly	His	Arg	Asp	Arg	Ala	Leu	Ala	Asp	Leu	Leu	Cys		
	210					215						220					
Gln	Ile	Thr	Gly	Ala	Glu	Asp	Ala	Cys	Ile	Val	Asn	Asn	Asn	Ala	Ala		
	225				230					235				240			
Ala	Val	Leu	Leu	Met	Leu	Ala	Ala	Thr	Ala	Ser	Gly	Lys	Glu	Val	Val		
				245					250					255			

Val Ser Arg Gly Glu Leu Val Glu Ile Gly Gly Ala Phe Arg Ile Pro
 260 265 270
 Asp Val Met Arg Gln Ala Gly Cys Thr Leu His Glu Val Gly Thr Thr
 275 280 285
 Asn Arg Thr His Ala Lys Asp Tyr Arg Ala Ala Val Asn Glu Asn Thr
 290 295 300
 Ala Leu Leu Met Lys Val His Thr Ser Asn Tyr His Ile Glu Gly Phe
 305 310 315 320
 Thr Lys Thr Val Glu Glu Ala Glu Leu Ala Ala Ile Gly Arg Glu Leu
 325 330 335
 Asn Val Pro Val Ile Ala Asp Leu Gly Ser Gly Ser Leu Val Asp Met
 340 345 350
 Arg Gln Tyr Gly Leu Pro Lys Glu Pro Met Val Gln Glu Met Val Ala
 355 360 365
 Ala Gly Val Ser Leu Val Ser Phe Ser Gly Asp Lys Leu Leu Gly Gly
 370 375 380
 Pro Gln Ala Gly Ile Ile Val Gly Arg Arg Glu Leu Ile Ala Gln Leu
 385 390 395 400
 Gln Gln His Pro Leu Lys Arg Ala Leu Arg Ala Asp Lys Met Thr Leu
 405 410 415
 Ala Ala Leu Glu Ala Thr Leu Arg Leu Tyr Leu His Pro Glu Lys Leu
 420 425 430
 Ala Asp Arg Leu Pro Thr Leu Arg Leu Leu Ser Arg Asp Ala Ala Ser
 435 440 445
 Val Arg Ala Gln Ala Glu Ala Leu Leu Pro Gln Val Ala Pro His Tyr
 450 455 460
 Pro Glu Phe Glu Val Arg Ile Glu Pro Cys Leu Ser Gln Ile Gly Ser
 465 470 475 480
 Gly Ser Leu Pro Val Asp Arg Leu Pro Ser Glu Ala Leu Thr Phe Thr
 485 490 495
 Pro Arg Asp Gly Arg Gly Ser Gln Leu Glu Ala Leu Ser Ala Arg Trp
 500 505 510
 Arg Ala Leu Pro Thr Pro Val Ile Gly Arg Ile Gly Asp Gly Arg Met
 515 520 525
 Trp Leu Asp Leu Arg Cys Leu Glu Asp Glu Val Arg Phe Leu Glu Met
 530 535 540
 Met Leu Lys
 545

<210> 9975

<211> 547

<212> PRT

<213> Enterobacter cloacae

<400> 9975

Ser Thr Val Ile Arg Asp Thr Ala Arg Lys Pro Val Thr Asp Trp Arg
 1 5 10 15
 Glu Asn His Gln Pro Glu Leu Pro Leu Leu Tyr Thr Tyr Cys Lys Glu
 20 25 30
 Thr Val Met Thr Asn Asn Pro Pro Ser Ser Arg Ile Gln Pro Gly Glu
 35 40 45
 Tyr Gly Phe Pro Leu Lys Leu Lys Pro Arg Tyr Asp Asn Phe Ile Gly
 50 55 60
 Gly Asp Trp Val Ala Pro Val Asp Gly Glu Tyr Tyr Ser Asn Leu Thr
 65 70 75 80
 Pro Val Thr Gly Gln Pro Leu Cys Glu Ile Ala Ser Ser Gly Lys Arg
 85 90 95
 Asp Ile Asp Leu Ala Leu Asp Ala Ala His Lys Ala Lys Asp Lys Trp
 100 105 110
 Gly Gln Thr Ser Val Gln Asp Arg Ala Ala Ile Leu Phe Lys Ile Ala
 115 120 125

Asp Arg Ile Glu Gln Asn Leu Glu Leu Leu Ala Thr Ala Glu Thr Trp
 130 135 140
 Asp Asn Gly Lys Pro Ile Arg Glu Thr Met Ala Ala Asp Val Pro Leu
 145 150 155 160
 Ala Ile Asp His Phe Arg Tyr Phe Ala Ser Cys Ile Arg Ala Gln Glu
 165 170 175
 Gly Gly Ile Ser Glu Val Asp Lys Asp Thr Val Ala Tyr His Phe His
 180 185 190
 Glu Pro Leu Gly Val Val Gly Gln Ile Ile Pro Trp Asn Phe Pro Leu
 195 200 205
 Leu Met Ala Ser Trp Lys Met Ala Pro Ala Leu Ala Ala Gly Asn Cys
 210 215 220
 Val Val Leu Lys Pro Ala Arg Leu Thr Pro Leu Ser Val Leu Leu Leu
 225 230 235 240
 Met Glu Val Ile Gly Asp Leu Leu Pro Pro Gly Val Ile Asn Val Val
 245 250 255
 Asn Gly Ala Gly Gly Glu Ile Gly Glu Tyr Leu Ala Thr Ser Lys Arg
 260 265 270
 Ile Ala Lys Val Ala Phe Thr Gly Ser Thr Glu Val Gly Gln Gln Ile
 275 280 285
 Met Gln Tyr Ala Thr Gln Asn Ile Ile Pro Val Thr Leu Glu Leu Gly
 290 295 300
 Gly Lys Ser Pro Asn Ile Phe Phe Ala Asp Val Met Asp Glu Glu Asp
 305 310 315 320
 Ala Phe Phe Asp Lys Ala Leu Glu Gly Phe Ala Leu Phe Ala Phe Asn
 325 330 335
 Gln Gly Glu Val Cys Thr Cys Pro Ser Arg Ala Leu Val Gln Glu Ser
 340 345 350
 Ile Tyr Glu Arg Phe Met Glu Arg Ala Ile Arg Arg Val Glu Ser Ile
 355 360 365
 Arg Ser Gly Asn Pro Leu Asp Asn Val Thr Gln Met Gly Ala Gln Val
 370 375 380
 Ser His Gly Gln Leu Glu Thr Ile Leu Asn Tyr Ile Asp Ile Gly Lys
 385 390 395 400
 Lys Glu Gly Ala Asp Val Leu Thr Gly Gly Arg Arg Lys Val Leu Gly
 405 410 415
 Gly Asp Leu Gln Glu Gly Tyr Tyr Leu Glu Pro Thr Ile Leu Phe Gly
 420 425 430
 Lys Asn Asn Met Arg Val Phe Gln Glu Glu Ile Phe Gly Pro Val Leu
 435 440 445
 Ala Val Thr Thr Phe Lys Thr Met Asp Glu Ala Leu Glu Leu Ala Asn
 450 455 460
 Asp Thr Gln Tyr Gly Leu Gly Ala Gly Val Trp Ser Arg Asn Gly Asn
 465 470 475 480
 Leu Ala Tyr Lys Met Gly Arg Gly Ile Gln Ala Gly Arg Val Trp Thr
 485 490 495
 Asn Cys Tyr His Ala Tyr Pro Ala His Ala Ala Phe Gly Gly Tyr Lys
 500 505 510
 Gln Ser Gly Ile Gly Arg Glu Thr His Lys Met Met Leu Glu His Tyr
 515 520 525
 Gln Gln Thr Lys Cys Leu Leu Val Ser Tyr Ser Asp Lys Pro Leu Gly
 530 535 540
 Leu Phe
 545

<210> 9976

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 9976

Val Ala Ala Lys Asp Gly Tyr Ser Phe Leu Asn Ala Leu Arg Val Lys
 1 5 10 15
 Arg Leu Asn His Leu Ile Arg Gln Ala Gln Gln Val Val Thr Pro Asp
 20 25 30
 His Leu Ala His His Arg Arg Ala Asp Ala Ala Arg Arg Lys Ala Asp
 35 40 45
 Asn Ala Val His Val Gly Asn Gly Gly Asp Asp Phe Leu Val Ser Asn
 50 55 60
 Asp Asn Ala Ala Thr Ala Ala Arg Gln Ala Gln Leu Gly Glu Ala His
 65 70 75 80
 Ala Glu Asp Asp Ile Arg Val Pro
 85

<210> 9977

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 9977

Arg Thr Arg Phe Ala Glu Asp Asp Pro Arg Glu Arg Tyr Ala Ile Gly
 1 5 10 15
 Val Ile Asp His Gln Arg Asp Ala Val Leu Ile Arg Gln Arg Ile Gln
 20 25 30
 Leu His Gln Leu Val Val Gly Asp His Val Pro Arg Arg Val Gly Gly
 35 40 45
 Thr Arg Tyr Ala Asp His Ala Arg Leu Phe Thr Asp Met Gln Met Phe
 50 55 60
 Lys Ile Asp Val Ile Phe Glu Leu Ala Leu Trp Gln Gln Leu Asp Ile
 65 70 75 80
 Arg Thr Cys Gly Asn Lys Gln Val Phe Phe Glu Ala Gly Ile Gly Ile
 85 90 95
 Ala Asn Ile Leu Arg Cys Gln Arg Glu Gln His Phe Phe Arg Gly Ala
 100 105 110
 Val Gly Ala Ala Ser Gly Glu Gln Ile Glu
 115 120

<210> 9978

<211> 470

<212> PRT

<213> Enterobacter cloacae

<400> 9978

Asn Asn Val Ile Glu Gln Pro Pro Met Ser Ile His Tyr Tyr Ser Arg
 1 5 10 15
 Ser Lys Thr Thr Pro His Thr Leu Ile Met Glu Leu Asn Met Gln Ala
 20 25 30
 Tyr Phe Asp Gln Leu Asp Arg Val Arg Phe Glu Gly Thr Lys Thr Thr
 35 40 45
 Asn Pro Leu Ala Phe Arg His Tyr Asn Pro Asp Glu Leu Val Leu Gly
 50 55 60
 Lys Arg Met Glu Asp His Leu Arg Phe Ala Ala Cys Tyr Trp His Thr
 65 70 75 80
 Phe Cys Trp Asn Gly Ala Asp Met Phe Gly Val Gly Ser Phe Asp Arg
 85 90 95
 Pro Trp Gln Gln Pro Gly Glu Ala Ile Glu Leu Ala Lys Arg Lys Ala
 100 105 110
 Asp Val Ala Phe Glu Phe Phe His Lys Leu Asn Val Pro Tyr Tyr Cys
 115 120 125
 Phe His Asp Val Asp Val Ser Pro Glu Gly Ala Ser Leu Lys Glu Tyr
 130 135 140
 Leu Asn Asn Phe Ala Gln Met Val Asp Val Leu Ala Glu Lys Gln Gln

145 150 155 160
 Gln Ser Gly Val Lys Leu Leu Trp Gly Thr Ala Asn Cys Phe Thr Asn
 165 170 175
 Pro Arg Tyr Gly Ala Gly Ala Ala Thr Asn Pro Asp Pro Glu Val Phe
 180 185 190
 Ser Trp Ala Ala Thr Gln Val Val Thr Ala Met Asn Ala Thr His Gln
 195 200 205
 Leu Gly Gly Glu Asn Tyr Val Leu Trp Gly Gly Arg Glu Gly Tyr Glu
 210 215 220
 Thr Leu Leu Asn Thr Asp Leu Arg Gln Glu Arg Glu Gln Ile Gly Arg
 225 230 235 240
 Phe Met Gln Met Val Val Asp His Lys His Lys Ile Gly Phe Arg Gly
 245 250 255
 Thr Leu Leu Ile Glu Pro Lys Pro Gln Glu Pro Thr Lys His Gln Tyr
 260 265 270
 Asp Tyr Asp Val Ala Thr Val Tyr Gly Phe Leu Lys Gln Phe Gly Leu
 275 280 285
 Glu Lys Glu Ile Lys Val Asn Ile Glu Ala Asn His Ala Thr Leu Ala
 290 295 300
 Gly His Ser Phe His His Glu Ile Ala Ser Ala Ile Ala Leu Gly Ile
 305 310 315 320
 Phe Gly Ser Val Asp Ala Asn Arg Gly Asp Pro Gln Leu Gly Trp Asp
 325 330 335
 Thr Asp Gln Phe Pro Asn Ser Val Glu Glu Asn Ala Leu Val Met Tyr
 340 345 350
 Glu Ile Ile Lys Ala Gly Gly Phe Thr Thr Gly Gly Leu Asn Phe Asp
 355 360 365
 Ala Lys Val Arg Arg Gln Ser Thr Asp Lys Tyr Asp Leu Phe Tyr Gly
 370 375 380
 His Ile Gly Ala Met Asp Thr Met Ala Leu Ala Leu Lys Val Ala Ala
 385 390 395 400
 Arg Met Ile Glu Asp Gly Glu Leu Asp Lys Arg Val Ala Lys Arg Tyr
 405 410 415
 Ser Gly Trp Asn Ser Glu Leu Gly Gln Gln Ile Leu Lys Gly Gln Leu
 420 425 430
 Ser Leu Ala Glu Ile Ala Lys Tyr Ala Glu Gln His Gln Leu Ala Pro
 435 440 445
 Gln His Gln Ser Gly His Gln Glu Leu Leu Glu Asn Leu Val Asn His
 450 455 460
 Tyr Leu Phe Asp Lys
 465 470

<210> 9979

<211> 491

<212> PRT

<213> Enterobacter cloacae

<400> 9979

Ile Pro Lys Glu Ala Ala Glu Met His Phe Arg Ala Ile Thr Arg Ile
 1 5 10 15
 Val Gly Leu Leu Val Ile Leu Phe Ser Gly Thr Met Ile Ile Pro Gly
 20 25 30
 Leu Val Ala Leu Ile Tyr Arg Asp Gly Ala Gly Arg Ala Phe Thr Gln
 35 40 45
 Thr Phe Phe Val Ala Leu Thr Ile Gly Ser Leu Leu Trp Trp Pro Asn
 50 55 60
 Arg Arg Glu Lys Gly Glu Leu Lys Ser Arg Glu Gly Phe Leu Ile Val
 65 70 75 80
 Val Leu Phe Trp Thr Val Leu Gly Ser Val Gly Ala Leu Pro Phe Ile
 85 90 95
 Phe Ser Glu Gln Pro Asn Leu Thr Val Thr Asp Ala Phe Phe Glu Ser

100 105 110
 Phe Ser Gly Leu Thr Thr Thr Gly Ala Thr Thr Leu Val Gly Leu Asp
 115 120 125
 Ser Leu Pro His Ala Ile Leu Phe Tyr Arg Gln Met Leu Gln Trp Phe
 130 135 140
 Gly Gly Met Gly Ile Ile Val Leu Ala Val Ala Ile Leu Pro Ile Leu
 145 150 155 160
 Gly Val Gly Gly Met Gln Leu Tyr Arg Ala Glu Met Pro Gly Pro Leu
 165 170 175
 Lys Asp Asn Lys Met Arg Pro Arg Ile Ala Glu Thr Ala Lys Thr Leu
 180 185 190
 Trp Leu Ile Tyr Val Leu Leu Thr Val Ala Cys Ala Leu Ala Leu Trp
 195 200 205
 Phe Ala Gly Met Pro Ala Phe Asp Ala Ile Gly His Ser Phe Ala Thr
 210 215 220
 Ile Ala Ile Gly Gly Phe Ser Thr His Asp Ala Ser Val Gly Tyr Phe
 225 230 235 240
 Asp Ser Pro Thr Ile Asn Thr Ile Ile Ala Ile Phe Leu Leu Ile Ser
 245 250 255
 Gly Cys Asn Tyr Gly Leu His Phe Ser Leu Leu Ser Gly Arg Ser Leu
 260 265 270
 Lys Val Tyr Trp Arg Asp Pro Glu Phe Arg Met Phe Ile Gly Val Gln
 275 280 285
 Leu Thr Leu Val Ile Ile Cys Thr Leu Val Leu Trp Phe His Asp Val
 290 295 300
 Tyr Asn Ser Ala Val Thr Thr Leu Asn Gln Ala Phe Phe Gln Val Val
 305 310 315 320
 Ser Met Ala Thr Thr Ala Gly Phe Thr Thr Asp Ser Ile Ala Arg Trp
 325 330 335
 Pro Leu Phe Leu Pro Val Leu Leu Leu Cys Ser Ala Phe Ile Gly Gly
 340 345 350
 Cys Ala Gly Ser Thr Gly Gly Gly Leu Lys Val Ile Arg Ile Leu Leu
 355 360 365
 Leu Phe Lys Gln Gly Asn Arg Glu Leu Lys Arg Leu Val His Pro Asn
 370 375 380
 Ala Val Tyr Ser Ile Lys Leu Gly Asn Arg Ala Leu Pro Glu Arg Ile
 385 390 395 400
 Leu Glu Ala Val Trp Gly Phe Phe Ser Ala Tyr Ala Leu Val Phe Ile
 405 410 415
 Val Ser Met Leu Ala Ile Ile Ala Thr Gly Val Asp Asp Phe Ser Ala
 420 425 430
 Phe Ala Ser Val Val Ala Thr Leu Asn Asn Leu Gly Pro Gly Leu Gly
 435 440 445
 Val Val Ala Asp Asn Phe Ala Ser Met Asn Pro Val Ala Lys Trp Ile
 450 455 460
 Leu Ile Ala Asn Met Leu Phe Gly Arg Leu Glu Val Phe Thr Leu Leu
 465 470 475 480
 Val Leu Phe Thr Pro Thr Phe Trp Arg Glu
 485 490

<210> 9980

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 9980

Gly Gly Glu Met Gly Glu Leu Leu Asn Ser Gly Leu Leu Ser Ile Ala
 1 5 10 15
 Ser Leu Val Met Ser Leu Val Val Leu Val Val Gly Leu Val Leu Trp
 20 25 30
 Phe Phe Val Asn Arg Ala Ser Ser Arg Thr Asn Glu Gln Ile Glu Leu

35 40 45
 Leu Glu Ala Leu Leu Asp Gln Gln Lys Arg Gln Asn Ala Leu Leu Arg
 50 55 60
 Arg Leu Cys Glu Ala Asn Glu Pro Glu Glu Lys Ala Val Pro Lys Asp
 65 70 75 80
 Ala Val Ala Gln Gln Gln Asp Glu Glu Asp Phe Ile Arg Leu Val Ala
 85 90 95
 Glu Arg

<210> 9981
 <211> 172
 <212> PRT
 <213> Enterobacter cloacae

<400> 9981
 Thr His Ser Gln Gln Gln Ser Val Lys Pro Met Lys Tyr Asp Thr Ser
 1 5 10 15
 Glu Leu Cys Asp Ile Tyr Gln Glu Asp Val Asn Val Val Glu Pro Leu
 20 25 30
 Phe Ser Asn Phe Gly Gly Arg Ser Ser Phe Gly Gly Gln Ile Ile Thr
 35 40 45
 Val Lys Cys Phe Glu Asp Asn Gly Leu Leu Tyr Asp Leu Leu Glu Glu
 50 55 60
 Asn Gly Arg Gly Arg Val Leu Leu Val Asp Gly Gly Gly Ser Val Arg
 65 70 75 80
 Arg Ala Leu Ile Asp Ala Asp Leu Ala Arg Leu Ala Val Gln Asn Glu
 85 90 95
 Trp Glu Gly Ile Val Val Tyr Gly Ser Val Arg Gln Val Asp Asp Leu
 100 105 110
 Glu Asp Leu Asp Ile Gly Ile Gln Ala Ile Ala Ile Pro Val Gly
 115 120 125
 Ala Ala Gly Glu Gly Ile Gly Glu Ser Asp Val Arg Val Asn Phe Gly
 130 135 140
 Gly Val Thr Phe Phe Ser Gly Asp His Leu Tyr Ala Asp Asn Thr Gly
 145 150 155 160
 Ile Ile Leu Ser Glu Asp Ala Leu Asp Ile Glu
 165 170

<210> 9982
 <211> 234
 <212> PRT
 <213> Enterobacter cloacae

<400> 9982
 Thr Met Asn Lys Ile Leu Leu Val Asp Asp Asp Arg Glu Leu Thr Ser
 1 5 10 15
 Leu Leu Lys Glu Leu Leu Asp Met Glu Gly Phe Asn Val Leu Val Ala
 20 25 30
 His Asp Gly Glu Gln Ala Leu Ser Leu Leu Asp Asp Ser Ile Asp Leu
 35 40 45
 Leu Leu Leu Asp Val Met Met Pro Lys Lys Asn Gly Ile Asp Thr Leu
 50 55 60
 Lys Glu Leu Arg Gln Thr His Gln Thr Pro Val Ile Met Leu Thr Ala
 65 70 75 80
 Arg Gly Ser Glu Leu Asp Arg Val Leu Gly Leu Glu Leu Gly Ala Asp
 85 90 95
 Asp Tyr Leu Pro Lys Pro Phe Asn Asp Arg Glu Leu Val Ala Arg Ile
 100 105 110
 Arg Ala Ile Leu Arg Arg Ser His Trp Ser Glu Gln Gln Asn Thr
 115 120 125

Asp Asn Ser Ser Pro Thr Leu Glu Val Asp Ser Leu Ser Leu Asn Pro
 130 135 140
 Gly Arg Gln Glu Ala Ser Phe Asp Gly Glu Thr Leu Glu Leu Thr Gly
 145 150 155 160
 Thr Glu Phe Thr Leu Leu Tyr Leu Leu Ala Gln His Leu Gly Gln Val
 165 170 175
 Val Ser Arg Glu His Leu Ser Gln Glu Val Leu Gly Lys Arg Leu Thr
 180 185 190
 Pro Phe Asp Arg Ala Ile Asp Met His Ile Ser Asn Leu Arg Arg Lys
 195 200 205
 Leu Pro Glu Arg Lys Asp Gly His Pro Trp Phe Lys Thr Leu Arg Gly
 210 215 220
 Arg Gly Tyr Leu Met Val Ser Ala Ser
 225 230

<210> 9983

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 9983

Glu Ile Phe Ala Lys Arg Gly Gly Asp Glu Glu Val Ser Leu Phe Arg
 1 5 10 15
 Lys Phe Gly Phe Pro Val Leu Ile Val Leu Ala Arg Ile Val Ala Gln
 20 25 30
 Arg Ala Ile Gly Pro Ala Val Asp Phe Leu Phe Ser Leu Val Thr
 35 40 45
 Arg Lys Pro Glu Ile Gly Gln Arg Gln Leu Thr Val Asp Leu His Phe
 50 55 60
 Gly Asp Gly Thr Arg Ala Ala Phe Val Leu Pro Tyr Leu Ala Cys
 65 70 75 80
 Lys His Ile His Arg Val Met His Leu His Ser Phe Arg Tyr Lys Lys
 85 90 95
 Ser Glu Ser Ser Asp Ser Leu Leu Thr Gly Val Asn Ala Thr Leu Phe
 100 105 110
 Phe Ser Gly Glu Thr Arg Cys Cys Phe Val Pro Val His His Val Pro
 115 120 125
 Glu Gly Phe Asp Val Val Arg Ala Thr Val Leu Glu Leu Gln Val Val
 130 135 140
 Ser Val Phe Pro His Val Gln Thr Gln Asn Trp Glu Ala Gly Cys Ala
 145 150 155 160
 Arg Asp Ser Phe Thr His Lys Arg Gly Ile Leu Val Ser Gly Arg Asn
 165 170 175
 Asp Arg Gln Phe Val Thr Phe Gln Asn Gln Pro Arg Pro Ala Arg Ala
 180 185 190
 Glu Thr Gly Cys Ser Gly Phe Phe Glu Phe Arg Phe Glu Val Val Asn
 195 200 205
 Gly Thr Glu Val Thr Leu Asp Ser Arg Phe Gln Val Ala Leu Lys Gly
 210 215 220
 Gly Ala Gly Phe Gln Ala Phe Pro Glu Gln Ala Val Val Ser Val Thr
 225 230 235 240
 Ala Arg Val Val Ala Gln His Gly Phe Leu Val Cys Trp Gln Leu Val
 245 250 255
 Gln Phe Gly Asp Gln Leu Phe Asn Arg Gln Ile Ser Glu Leu Trp Gln
 260 265 270
 Ala Phe Gln Arg Ser Ile Arg Val Val His Val Gly Leu Val Val Phe
 275 280 285
 Ser Val Met Asp Phe His Arg Leu Leu Val Glu Met Arg Phe Gln Cys
 290 295 300
 Val Val Gly Ile Arg Gln Gly Trp Gln Cys Ile Thr His Asn Pro Leu
 305 310 315 320

His Tyr Cys Arg Ala Ala Gln Leu Leu Met Pro Arg Lys Gln Leu Val
 325 330 335

His Tyr Ser
 340

<210> 9984

<211> 383

<212> PRT

<213> Enterobacter cloacae

<400> 9984

Leu Pro Phe Lys Thr Lys Val Arg Gln Pro Ser Glu Gly Ser Gln Thr
 1 5 10 15
 Ala Ser Phe Leu His Ser Ser Ser Arg Arg Glu Ala Ser Gly Tyr Lys
 20 25 30
 Asn Asp Glu Asp Val Lys Met Asn His Ala Ile Thr Met Gly Ile Phe
 35 40 45
 Trp His Leu Ile Gly Ala Ala Ser Ala Ala Cys Phe Tyr Ala Pro Phe
 50 55 60
 Lys Lys Val Lys Gly Trp Ser Trp Glu Thr Met Trp Ser Val Gly Gly
 65 70 75 80
 Thr Val Ser Trp Leu Ile Leu Pro Trp Thr Ile Ser Ala Met Leu Leu
 85 90 95
 Pro Asp Phe Trp Gly Tyr Phe Ser Ser Phe Asn Ala Ser Thr Leu Leu
 100 105 110
 Pro Val Phe Leu Phe Gly Ala Met Trp Gly Ile Gly Asn Ile Asn Tyr
 115 120 125
 Gly Leu Thr Met Arg Tyr Leu Gly Met Ser Met Gly Ile Gly Ile Ala
 130 135 140
 Ile Gly Ile Thr Leu Ile Val Gly Thr Leu Met Thr Pro Ile Leu Asn
 145 150 155 160
 Gly Asn Phe Asp Val Leu Ile Asn Thr Gln Gly Gly Arg Met Thr Leu
 165 170 175
 Leu Gly Val Leu Val Ala Val Ile Gly Val Gly Ile Val Thr Arg Ala
 180 185 190
 Gly Gln Leu Lys Glu Arg Lys Met Gly Ile Lys Ala Glu Glu Phe Asn
 195 200 205
 Leu Lys Lys Gly Leu Leu Leu Ala Val Met Cys Gly Ile Phe Ser Ala
 210 215 220
 Gly Met Ser Phe Ala Met Asn Ala Ala Lys Pro Met His Asp Ala Ala
 225 230 235 240
 Ala Ala Leu Gly Val Asp Pro Leu Tyr Val Ala Leu Pro Ser Tyr Val
 245 250 255
 Val Ile Met Gly Gly Gly Ala Leu Val Asn Leu Gly Phe Cys Phe Ile
 260 265 270
 Arg Leu Ala Lys Val Asn Asn Leu Ser Val Lys Ala Asp Phe Ser Leu
 275 280 285
 Ala Lys Pro Leu Ile Val Thr Asn Val Leu Leu Ser Ala Leu Gly Gly
 290 295 300
 Leu Met Trp Tyr Leu Gln Phe Phe Phe Tyr Ala Trp Gly His Ala Ser
 305 310 315 320
 Ile Pro Ala Gln Tyr Asp Tyr Met Ser Trp Met Leu His Met Ser Phe
 325 330 335
 Tyr Val Leu Cys Gly Gly Leu Val Gly Leu Val Leu Lys Glu Trp Asn
 340 345 350
 Asn Ala Gly Arg Arg Pro Val Gly Val Leu Ser Leu Gly Cys Val Val
 355 360 365
 Ile Ile Ile Ala Ala Asn Ile Val Gly Leu Gly Met Ala Asn
 370 375 380

<210> 9985

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 9985

```

Pro Met Gln Val Ser Arg Gln Phe Phe Lys Ile Cys Ala Gly Gly
1      5      10      15
Met Ala Gly Thr Thr Ala Ala Ala Leu Gly Phe Ala Pro Gly Val Ala
20      25      30
Leu Ala Glu Thr Arg Gln Tyr Lys Leu Leu Arg Thr Arg Glu Thr Arg
35      40      45
Asn Thr Cys Thr Tyr Cys Ser Val Gly Cys Gly Leu Leu Met Tyr Ser
50      55      60
Leu Gly Asp Gly Ala Lys Asn Ala Lys Ala Ser Ile Phe His Ile Glu
65      70      75      80
Gly Asp Pro Asp His Pro Val Asn Arg Gly Ala Leu Cys Pro Lys Gly
85      90      95
Ala Gly Leu Val Asp Phe Ile His Ser Glu Ser Arg Leu Lys Phe Pro
100     105     110
Glu Tyr Arg Ala Pro Gly Ser Asp Lys Trp Gln Gln Ile Ser Trp Glu
115     120     125
Glu Ala Phe Asp Arg Ile Ala Lys Leu Met Lys Glu Asp Arg Asp Ala
130     135     140
Asn Phe Ile Ala Lys Asn Ala Glu Gly Thr Thr Val Asn Arg Trp Leu
145     150     155     160
Ser Thr Gly Met Leu Cys Ala Ser Ala Ser Ser Asn Glu Thr Gly Tyr
165     170     175
Leu Thr Gln Lys Phe Thr Arg Ala Leu Gly Met Leu Ala Val Asp Asn
180     185     190
Gln Ala Arg Val
195

```

<210> 9986

<211> 821

<212> PRT

<213> Enterobacter cloacae

<400> 9986

```

His Gly Pro Thr Val Ala Ser Leu Ala Pro Thr Phe Gly Arg Gly Ala
1      5      10      15
Met Thr Asn His Trp Val Asp Ile Lys Asn Ala Asn Leu Ile Val Val
20      25      30
Met Gly Gly Asn Ala Ala Glu Ala His Pro Val Gly Phe Arg Trp Ala
35      40      45
Met Glu Ala Lys Ile His Asn Gly Ala Lys Leu Ile Val Ile Asp Pro
50      55      60
Arg Phe Thr Arg Thr Ala Ser Val Ala Asp Phe Tyr Thr Pro Ile Arg
65      70      75      80
Ser Gly Thr Asp Ile Thr Phe Leu Ser Gly Val Leu Leu Tyr Leu Met
85      90      95
Thr Asn Glu Lys Tyr Asn Arg Glu Tyr Thr Glu Ala Tyr Thr Asn Ala
100     105     110
Ser Leu Ile Val Arg Glu Asp Tyr His Phe Glu Asp Gly Leu Phe Ser
115     120     125
Gly Tyr Asp Ala Glu Lys Arg Lys Tyr Asp Lys Thr Ser Trp Asn Tyr
130     135     140
Glu Leu Asp Glu Asn Gly Phe Ala Lys Arg Asp Thr Thr Leu Gln His
145     150     155     160
Pro Arg Cys Val Trp Asn Leu Leu Lys Glu His Val Ser Arg Tyr Thr
165     170     175
Pro Glu Val Val Glu Asn Ile Cys Gly Thr Pro Lys Ala Asp Phe Leu

```


Ser Asn Pro Ala Ala Arg Ile Phe Lys Gly Asp Phe Glu Ala Leu Gly
 675 680 685
 Lys Lys Asp Lys Phe Pro Tyr Val Gly Thr Thr Tyr Arg Leu Thr Glu
 690 695 700
 His Phe His Tyr Trp Thr Lys His Ala Leu Leu Asn Ala Ile Ala Gln
 705 710 715 720
 Pro Glu Gln Phe Val Glu Ile Gly Glu Lys Leu Ala Asn Lys Leu Gly
 725 730 735
 Ile Ala His Gly Asp Thr Val Lys Val Ser Ser Asn Arg Gly Tyr Ile
 740 745 750
 Lys Ala Lys Ala Val Val Thr Lys Arg Ile Arg Thr Leu Asn Val His
 755 760 765
 Gly Gln Gln Val Asp Thr Ile Gly Ile Pro Ile His Trp Gly Tyr Glu
 770 775 780
 Gly Val Ala Lys Lys Gly Phe Ile Ala Asn Thr Leu Thr Pro Phe Val
 785 790 795 800
 Gly Asp Ala Asn Thr Gln Thr Pro Glu Phe Lys Ala Phe Leu Val Asn
 805 810 815
 Val Glu Lys Val
 820

<210> 9987

<211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 9987

Arg Arg Arg Leu Met Ala Tyr Gln Ser Gln Asp Ile Ile Arg Arg Ser
 1 5 10 15
 Ala Thr Asn Gly Phe Thr Pro Ala Pro Gln Ala Arg Asp His Gln Gln
 20 25 30
 Glu Val Ala Lys Leu Ile Asp Val Thr Thr Cys Ile Gly Cys Lys Ala
 35 40 45
 Cys Gln Val Ala Cys Ser Glu Trp Asn Asp Ile Arg Asp Glu Val Gly
 50 55 60
 His Asn Val Gly Val Tyr Asp Asn Pro Ala Asp Leu Thr Ala Lys Ser
 65 70 75 80
 Trp Thr Val Met Arg Phe Ser Glu Val Glu Gln Asn Asp Lys Leu Glu
 85 90 95
 Trp Leu Ile Arg Lys Asp Gly Cys Met His Cys Ala Asp Pro Gly Cys
 100 105 110
 Leu Lys Ala Cys Pro Ser Glu Gly Ala Ile Ile Gln Tyr Ala Asn Gly
 115 120 125
 Ile Val Asp Phe Gln Ser Glu Gln Cys Ile Gly Cys Gly Tyr Cys Ile
 130 135 140
 Ala Gly Cys Pro Phe Asp Val Pro Arg Met Asn Pro Glu Asp Asn Arg
 145 150 155 160
 Val Tyr Lys Cys Thr Leu Cys Val Asp Arg Val Asn Val Gly Gln Glu
 165 170 175
 Pro Ala Cys Val Lys Thr Cys Pro Thr Gly Ala Ile His Phe Gly Ser
 180 185 190
 Lys Glu Asp Met Lys Thr Leu Ala Ala Glu Arg Val Gly Glu Leu Lys
 195 200 205
 Thr Arg Gly Tyr Asp Asn Ala Gly Leu Tyr Asp Pro Ala Gly Val Gly
 210 215 220
 Gly Thr His Val Met Tyr Val Leu His His Ala Asp Lys Pro Asn Leu
 225 230 235 240
 Tyr His Gly Leu Pro Glu Asn Pro Glu Ile Ser Ala Thr Val Lys Phe
 245 250 255
 Trp Lys Gly Ile Trp Lys Pro Leu Ala Ala Val Gly Phe Ala Ala Thr
 260 265 270

Phe Ala Ala Ser Ile Phe His Tyr Val Gly Val Gly Pro Asn Arg Ala
 275 280 285
 Glu Glu Glu Asp Asp Asn Leu His Glu Glu Lys Asp Glu Val Arg Lys
 290 295 300

305

<210> 9988

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 9988

Gly Met Thr Met Tyr Thr Leu Lys Asp Ile Thr Arg Pro Ser Gly Gly
 1 5 10 15
 Phe Ala Met Leu Ala Val Asp Gln Arg Glu Ala Met Arg Leu Met Phe
 20 25 30
 Ala Ala Ala Gly Ala Pro Val Pro Val Thr Asp Gln His Leu Thr Asp
 35 40 45
 Phe Lys Val Asn Ala Ala Lys Ile Leu Ser Pro Tyr Ala Ser Ala Ile
 50 55 60
 Leu Val Asp Gln Gln Phe Cys Tyr Arg Gln Ile Val Gly Gln Gln Ala
 65 70 75 80
 Val Ala Lys Ser Cys Ala Met Ile Val Ala Ala Asp Glu Phe Ile Pro
 85 90 95
 Gly Asn Gly Ile Pro Val Asp Ser Val Ala Ile Asp Lys Asn Val Asp
 100 105 110
 Ala Gln Ala Val Lys Arg Asp Gly Gly Lys Ala Leu Lys Leu Leu Val
 115 120 125
 Leu Trp Arg Ser Asp Glu Asp Pro Gln Gln Arg Leu Glu Met Val Lys
 130 135 140
 Ala Phe Asn Thr Leu Cys His Asp Asn Gly Leu Leu Ser Ile Ile Glu
 145 150 155 160
 Pro Val Val Arg Pro Pro Arg Arg Gly Ala Ala Phe Asn Arg Glu Gln
 165 170 175
 Ala Ile Ile Asp Ala Ala Lys Glu Leu Gly Asp Ser Gly Ala Asp Leu
 180 185 190
 Tyr Lys Val Glu Met Pro Leu Phe Gly Lys Gly Thr Gln Gln Glu Leu
 195 200 205
 Leu Ala Ala Ser Gln Lys Leu Asn Glu Asn Ile Ala Met Pro Trp Val
 210 215 220
 Ile Leu Ser Ser Gly Val Asp Asp Lys Leu Phe Pro Arg Ala Val Ser
 225 230 235 240
 Val Ala Met Gln Ala Gly Ala Ser Gly Phe Leu Ala Gly Arg Ala Val
 245 250 255
 Trp Ser Ser Val Ile Gly Leu Pro Asp Thr Glu Leu Met Leu Arg Asp
 260 265 270
 Ile Ser Val Pro Lys Leu Gln Arg Leu Gly Glu Ile Val Asp Glu Met
 275 280 285
 Met Ala Arg Arg
 290

<210> 9989

<211> 679

<212> PRT

<213> Enterobacter cloacae

<400> 9989

Asp Gly Val Phe Met Arg Thr Leu His Asn Ile Asp Leu Lys Asn Asn
 1 5 10 15
 Glu Ser Gly Phe Thr Leu Arg Trp Gln Asp Arg Leu Ile Leu Ser His

			20					25					30			
Thr	Ala	Asp	Ala	Pro	Cys	Leu	Trp	Ile	Gly	Ala	Gly	Glu	Ala	Asp	Ile	
		35					40					45				
Glu	Met	Phe	Arg	Gly	Asn	Phe	Ser	Ile	Lys	Asp	Lys	Leu	Asn	Glu	Lys	
	50					55					60					
Ile	Ala	Leu	Thr	Asn	Ala	Thr	Val	Thr	Gln	Gln	Ser	Ala	Gly	Trp	Ala	
65					70					75					80	
Ile	Arg	Phe	Thr	Arg	Gly	Asp	Ala	Val	Ser	Ala	Thr	Leu	Leu	Val	Gly	
				85										95		
Val	Asp	Ala	Glu	Gly	Arg	Leu	Glu	Leu	Lys	Leu	Lys	Asn	Asp	Ala	Pro	
			100					105					110			
Gly	His	Asn	Arg	Ile	Trp	Leu	Arg	Leu	Ala	Ala	Gln	Pro	Glu	Asp	His	
		115						120				125				
Ile	Tyr	Gly	Cys	Gly	Glu	Gln	Phe	Ser	Tyr	Phe	Asp	Leu	Arg	Gly	Lys	
	130					135					140					
Pro	Phe	Pro	Leu	Trp	Thr	Ser	Glu	Gln	Gly	Val	Gly	Arg	Asn	Lys	Gln	
145					150					155				160		
Thr	Tyr	Val	Thr	Trp	Gln	Ala	Asp	Cys	Lys	Glu	Asn	Ala	Gly	Gly	Asp	
				165					170					175		
Tyr	Tyr	Trp	Thr	Phe	Pro	Gln	Pro	Thr	Phe	Val	Ser	Thr	Gln	Lys		
			180				185					190				
Tyr	Tyr	Cys	His	Val	Asp	Asn	Ser	Cys	Tyr	Met	Asn	Phe	Asp	Phe	Ser	
		195					200				205					
Ala	Pro	Asp	Phe	His	Glu	Leu	Ala	Phe	Trp	Glu	Asp	Asn	Ala	Thr	Leu	
	210					215					220					
Arg	Phe	Glu	Cys	Ala	Glu	Thr	Tyr	Val	Asp	Leu	Leu	Glu	Lys	Leu	Thr	
225					230					235				240		
Gly	Leu	Leu	Gly	Arg	Gln	Pro	Glu	Leu	Pro	Asp	Trp	Val	Tyr	Asp	Gly	
				245					250					255		
Val	Thr	Leu	Gly	Ile	Gln	Gly	Gly	Thr	Glu	Val	Cys	Gln	Gln	Lys	Leu	
			260					265					270			
Asp	Thr	Met	Arg	Asn	Gly	Gly	Val	Lys	Val	Asn	Gly	Ile	Trp	Ala	Gln	
		275					280					285				
Asp	Trp	Ser	Gly	Ile	Arg	Met	Thr	Ser	Phe	Gly	Lys	Arg	Val	Met	Trp	
	290					295					300					
Asn	Trp	Lys	Trp	Asn	Ser	Ala	Leu	Tyr	Pro	Gln	Leu	Asp	Thr	Arg	Ile	
305				310						315					320	
Ala	Gln	Trp	Lys	Glu	Gly	Val	Gln	Phe	Gln	Leu	Ser	Tyr	Ile	Asn	Pro	
				325				330						335		
Tyr	Val	Ala	Ser	Asp	Lys	Asp	Leu	Cys	Glu	Glu	Ala	Ala	Lys	Arg	Gly	
			340					345					350			
Tyr	Leu	Thr	Lys	Asn	Ala	Asp	Gly	Lys	Asp	Tyr	His	Val	Glu	Phe	Gly	
		355					360									

Glu Met Lys Arg Ser Lys Glu Leu Leu Arg Trp Cys Asp Phe Ser
 515 520 525
 Ala Phe Thr Pro Met Met Arg Thr His Glu Gly Asn Arg Pro Gly Asp
 530 535 540
 Asn Trp Gln Phe Asp Gly Asp Ala Glu Thr Ile Ala His Phe Ala Arg
 545 550 555 560
 Met Thr Thr Val Phe Thr Thr Leu Lys Pro Tyr Thr Lys Ala Ala Val
 565 570 575
 Ala Gln Asn Ala Lys Ser Gly Leu Pro Val Met Arg Pro Leu Phe Leu
 580 585 590
 His Tyr Glu Asp Asp Ala Arg Ala Tyr Thr Leu Lys Tyr Gln Tyr Leu
 595 600 605
 Phe Gly Arg Asp Leu Leu Val Ala Pro Val His Glu Lys Gly Arg Arg
 610 615 620
 Asp Trp Ser Leu Tyr Leu Pro Gln Asp Thr Trp Val Asn Ala Trp Thr
 625 630 635 640
 Gly Glu Thr Cys Gln Gly Gly Asp Ile Thr Val Asp Ala Pro Leu Gly
 645 650 655
 Lys Pro Pro Val Phe Tyr Arg Gln Gln Ser Glu Trp Ala Asp Leu Phe
 660 665 670
 Ser Thr Leu Arg His Ile
 675

<210> 9990

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 9990

Gly Ser Pro Ala Gly Lys Pro Ala Gly Arg Arg Arg Thr Ile Met Ser
 1 5 10 15
 Gln His Thr Ser Asp Pro Ala Thr Leu Arg Leu Pro Phe Lys Glu Lys
 20 25 30
 Leu Ala Tyr Gly Met Gly Asp Leu Gly Ser Asn Ile Leu Leu Asp Ile
 35 40 45
 Gly Thr Leu Tyr Leu Leu Lys Phe Tyr Thr Asp Val Leu Gly Leu Pro
 50 55 60
 Gly Thr Tyr Gly Gly Ile Ile Phe Leu Ile Ala Lys Phe Phe Thr Ala
 65 70 75 80
 Phe Thr Asp Met Gly Thr Gly Ile Met Leu Asp Ser Arg Arg Lys Ile
 85 90 95
 Gly Pro Lys Gly Lys Phe Arg Pro Phe Val Leu Tyr Ala Ala Phe Pro
 100 105 110
 Val Thr Leu Leu Ala Ile Ala Asn Phe Val Gly Thr Pro Phe Glu Ile
 115 120 125
 Thr Gly Lys Thr Val Met Ala Thr Val Leu Phe Met Leu Tyr Gly Leu
 130 135 140
 Phe Phe Ser Met Met Asn Cys Ser Tyr Gly Ala Met Val Pro Ala Ile
 145 150 155 160
 Thr Lys Asn Pro Asp Glu Arg Ala Ser Leu Ala Ala Trp Arg Gln Gly
 165 170 175
 Gly Ala Thr Leu Gly Leu Leu Leu Cys Thr Val Gly Phe Val Pro Val
 180 185 190
 Met Asn Leu Ile Glu Gly Asn Asp Gln Leu Gly Tyr Ile Phe Ala Ala
 195 200 205
 Thr Leu Phe Ser Leu Phe Gly Leu Phe Phe Met Trp Trp Cys Tyr Lys
 210 215 220
 Gly Val Thr Glu Arg Tyr Val Glu Thr Gln Pro Ala Asn Pro Ala Gln
 225 230 235 240
 Lys Pro Gly Leu Leu Gln Ser Phe Arg Ala Ile Ala Gly Asn Arg Pro
 245 250 255

Leu Phe Ile Leu Cys Ile Ala Asn Leu Cys Thr Leu Gly Ala Phe Asn
 260 265 270
 Val Lys Leu Ala Ile Gln Val Tyr Tyr Thr Gln Tyr Val Leu Asn Asp
 275 280 285
 Pro Ile Leu Leu Ser Tyr Met Gly Phe Phe Ser Met Gly Cys Ile Phe
 290 295 300
 Ile Gly Val Phe Met Met Pro Gly Ala Val Arg Arg Phe Gly Lys Lys
 305 310 315 320
 Lys Val Tyr Ile Ser Gly Leu Met Ile Trp Val Ala Gly Asp Leu Leu
 325 330 335
 Asn Tyr Phe Phe Gly Gly Gly Ser Val Ser Phe Val Ala Phe Ser Cys
 340 345 350
 Leu Ala Phe Phe Gly Ser Ala Phe Val Asn Ser Leu Asn Trp Ala Leu
 355 360 365
 Val Ser Asp Thr Val Glu Tyr Gly Glu Trp Arg Thr Gly Val Arg Ser
 370 375 380
 Glu Gly Thr Val Tyr Thr Gly Phe Thr Phe Phe Arg Lys Val Ser Gln
 385 390 395 400
 Ala Leu Ala Gly Phe Phe Pro Gly Ile Met Leu Thr Gln Ile Gly Tyr
 405 410 415
 Val Pro Asn Val Val Gln Ser Ala Gly Thr Val Glu Gly Leu Arg Gln
 420 425 430
 Leu Ile Phe Ile Tyr Pro Ser Leu Leu Ala Val Ile Thr Ile Val Ala
 435 440 445
 Met Gly Cys Phe Tyr Asn Leu Asn Glu Lys Met Tyr Val Arg Ile Val
 450 455 460
 Glu Glu Ile Glu Leu Arg Lys Arg Thr Ala 475
 465 470

<210> 9991

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 9991

Ser Val Ser Ser His Phe Ile Thr Ile Asn Pro Ala Thr Met Ser Phe
 1 5 10 15
 Leu Phe Ile Arg Arg Glu Ala Phe Leu Tyr Leu Ile His Gly Gln Ile
 20 25 30
 Met Lys Arg Ile Ile Thr Val Leu Ile Val Ser Ser Val Ser Cys Pro
 35 40 45
 Val Phe Ala Gly Ala Tyr Val Glu Thr Arg Glu Ala Tyr Asn Thr Ala
 50 55 60
 Ser Glu Leu His Glu Val Ile Leu Arg Ala Gly Tyr Asn Phe Asp Met
 65 70 75 80
 Gly Ala Gly Leu Met Phe Thr Asn Ala Tyr Asn Val Gly Lys Trp Asp
 85 90 95
 Glu Leu Lys His Ser Tyr Asn Glu Ile Glu Gly Trp Tyr Pro Leu Phe
 100 105 110
 Lys Pro Thr Asp Lys Leu Thr Phe Gln Pro Gly Gly Leu Ile Asn Asp
 115 120 125
 Ser Ser Ala Gly Ser Gly Gly Ala Val Tyr Leu Asp Thr Asn Tyr Lys
 130 135 140
 Phe Thr Asp Trp Phe Asn Leu Thr Phe Arg Tyr Arg Tyr Asn His Asn
 145 150 155 160
 Asn Tyr Asp Thr Pro Asp Tyr Asn Gly Gln Met Asp Lys Asn Asp Thr
 165 170 175
 His Glu Phe Ala Asn Tyr Trp Asn Phe Lys Val Thr Asp Ala Phe Phe
 180 185 190
 Tyr Thr Phe Glu Pro His Phe Phe Gln Arg Val Asn Asp Tyr His Ser
 195 200 205

Lys Asn Gly Lys Asp His His Trp Glu Ile Thr Asn Lys Phe Ser Tyr
 210 215 220
 Lys Ile Asp Arg Asn Trp Leu Pro Tyr Leu Glu Leu Gln Trp Leu Asp
 225 230 235 240
 Arg Trp Asn Asp Tyr Asn Arg Glu Gln Tyr Arg Ile Arg Leu Gly Leu
 245 250 255
 Arg Tyr Ser Phe
 260

<210> 9992

<211> 485

<212> PRT

<213> Enterobacter cloacae

<400> 9992

Arg Pro Arg Tyr His Asp Asp Asn Asp Gln Ser Gly Glu Leu Ser Met
 1 5 10 15
 Ser Ala Glu His Val Leu Thr Met Leu Asn Glu His Glu Val Lys Phe
 20 25 30
 Val Asp Leu Arg Phe Thr Asp Thr Lys Gly Lys Glu Gln His Val Thr
 35 40 45
 Ile Pro Ala His Gln Val Asn Ala Glu Phe Phe Glu Glu Gly Lys Met
 50 55 60
 Phe Asp Gly Ser Ser Ile Gly Gly Trp Lys Gly Ile Asn Glu Ser Asp
 65 70 75 80
 Met Val Leu Met Pro Asp Ala Thr Thr Ala Leu Ile Asp Pro Phe Tyr
 85 90 95
 Glu Glu Pro Thr Leu Ile Ile Arg Cys Asp Ile Leu Glu Pro Gly Thr
 100 105 110
 Leu Gln Gly Tyr Asp Arg Asp Pro Arg Ser Ile Ala Lys Arg Ala Glu
 115 120 125
 Glu Tyr Leu Arg Ser Thr Gly Ile Ala Asp Thr Val Leu Phe Gly Pro
 130 135 140
 Glu Pro Glu Phe Phe Leu Phe Asp Asp Ile Arg Phe Gly Ala Ser Ile
 145 150 155 160
 Ser Gly Ser His Val Ala Ile Asp Asp Ile Glu Gly Ala Trp Asn Ser
 165 170 175
 Ser Thr Lys Tyr Glu Gly Asn Lys Gly His Arg Pro Gly Val Lys
 180 185 190
 Gly Gly Tyr Phe Pro Val Pro Pro Val Asp Ser Ser Gln Asp Ile Arg
 195 200 205
 Ser Thr Met Cys Leu Ile Met Glu Glu Met Gly Leu Val Val Glu Ala
 210 215 220
 His His His Glu Val Ala Thr Ala Gly Gln Asn Glu Ile Ala Thr Arg
 225 230 235 240
 Phe Asn Thr Met Thr Lys Lys Ala Asp Glu Ile Gln Ile Tyr Lys Tyr
 245 250 255
 Val Val His Asn Val Ala His Arg Phe Gly Lys Thr Ala Thr Phe Met
 260 265 270
 Pro Lys Pro Met Phe Gly Asp Asn Gly Ser Gly Met His Cys His Met
 275 280 285
 Ser Leu Ser Lys Asn Gly Thr Asn Leu Phe Ser Gly Asp Lys Tyr Ala
 290 295 300
 Gly Leu Ser Glu Gln Ala Leu His Tyr Ile Gly Gly Val Ile Lys His
 305 310 315 320
 Ala Lys Ala Ile Asn Ala Leu Ala Asn Pro Thr Thr Asn Ser Tyr Lys
 325 330 335
 Arg Leu Val Pro Gly Tyr Glu Ala Pro Val Met Leu Ala Tyr Ser Ala
 340 345 350
 Arg Asn Arg Ser Ala Ser Ile Arg Ile Pro Val Val Ala Ser Pro Lys
 355 360 365

Ala Arg Arg Ile Glu Val Arg Phe Pro Asp Pro Ala Ala Asn Pro Tyr
 370 375 380
 Leu Cys Phe Ala Ala Leu Met Ala Gly Leu Asp Gly Ile Lys Asn
 385 390 395 400
 Lys Ile His Pro Gly Glu Ala Met Asp Lys Asn Leu Tyr Asp Leu Pro
 405 410 415
 Pro Glu Glu Ala Lys Glu Ile Pro Gln Val Ala Gly Ser Leu Glu Glu
 420 425 430
 Ala Leu Gln Ala Leu Asp Ala Asp Arg Glu Phe Leu Thr Ala Gly Gly
 435 440 445
 Val Phe Thr Asp Glu Ala Ile Asp Ala Tyr Ile Ala Leu Arg Thr Glu
 450 455 460
 Glu Asn Asp Arg Val Arg Met Thr Pro His Pro Val Glu Phe Glu Leu
 465 470 475 480
 Tyr Tyr Ser Val
 485

<210> 9993

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 9993

Ile Thr Met Thr Asp Ile Ser Arg Thr Gln Ala Trp Leu Glu Ser Leu
 1 5 10 15
 Arg Pro Lys Thr Leu Pro Leu Ala Phe Ala Ala Ile Ile Val Gly Thr
 20 25 30
 Thr Leu Ala Trp Trp Gln Gly His Phe Asp Pro Leu Val Ala Gly Leu
 35 40 45
 Ala Leu Val Thr Ala Gly Leu Leu Gln Ile Leu Ser Asn Leu Ala Asn
 50 55 60
 Asp Tyr Gly Asp Ala Val Lys Gly Ser Asp Lys Pro Asp Arg Ile Gly
 65 70 75 80
 Pro Leu Arg Gly Met Gln Lys Gly Val Ile Thr Gln Ala Gln Met Lys
 85 90 95
 Arg Ala Leu Ile Thr Val Val Leu Ile Cys Leu Ser Gly Leu Ala
 100 105 110
 Leu Val Thr Val Ala Ser Lys Thr Thr Ser Asp Phe Ile Gly Phe Leu
 115 120 125
 Val Leu Gly Leu Leu Ala Ile Ile Ala Ala Ile Thr Tyr Thr Val Gly
 130 135 140
 Thr Arg Pro Tyr Gly Tyr Ile Gly Leu Gly Asp Ile Ser Val Leu Val
 145 150 155 160
 Phe Phe Gly Trp Leu Ser Val Met Gly Ser Trp Tyr Leu Gln Ala His
 165 170 175
 Thr Val Ile Pro Ala Leu Phe Leu Pro Ala Thr Ala Cys Gly Leu Leu
 180 185 190
 Ala Thr Ala Val Leu Asn Ile Asn Asn Leu Arg Asp Ile Asp Ser Asp
 195 200 205
 Arg Glu Asn Gly Lys Asn Thr Leu Ala Val Arg Leu Gly Pro Val Asn
 210 215 220
 Ala Arg Arg Tyr His Ala Phe Leu Leu Ile Gly Ala Leu Val Cys Leu
 225 230 235 240
 Ala Leu Phe Asn Leu Ile Ser Leu His Gly Leu Trp Gly Trp Leu Phe
 245 250 255
 Val Leu Ala Ala Pro Leu Leu Ile Lys Gln Ala Arg Tyr Val Met Arg
 260 265 270
 Glu Leu Ser Pro Ala Ala Met Pro Pro Met Leu Glu Arg Thr Val Lys
 275 280 285
 Gly Ala Leu Leu Thr Asn Leu Leu Phe Val Ile Gly Ile Val Leu Ser
 290 295 300

Gln Thr Leu Ser
305

<210> 9994

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 9994

Thr	Leu	Leu	Phe	Cys	Arg	Ile	Pro	Ile	Met	Ser	Gln	Thr	Ser	Thr	Leu
1				5					10					15	
Lys	Gly	Gln	Cys	Ile	Ala	Glu	Phe	Leu	Gly	Thr	Gly	Leu	Leu	Ile	Phe
			20					25					30		
Phe	Gly	Val	Gly	Cys	Val	Ala	Ala	Leu	Lys	Val	Ala	Gly	Ala	Ser	Phe
		35					40					45			
Gly	Gln	Trp	Glu	Ile	Ser	Ile	Ile	Trp	Gly	Leu	Gly	Val	Ala	Met	Ala
		50				55					60				
Ile	Tyr	Leu	Thr	Ala	Gly	Val	Ser	Gly	Ala	His	Leu	Asn	Pro	Ala	Val
65				70						75				80	
Thr	Ile	Ala	Leu	Trp	Leu	Phe	Ala	Cys	Phe	Asp	Gly	Arg	Lys	Val	Val
			85					90					95		
Pro	Phe	Ile	Ile	Ser	Gln	Phe	Ala	Gly	Ala	Phe	Cys	Ala	Ala	Ala	Leu
			100					105					110		
Val	Tyr	Gly	Leu	Tyr	Tyr	Asn	Leu	Phe	Ile	Asp	Phe	Glu	Gln	Thr	His
		115				120						125			
His	Met	Val	Arg	Gly	Ser	Val	Glu	Ser	Leu	Asp	Leu	Ala	Gly	Ile	Phe
	130					135					140				
Ser	Thr	Tyr	Pro	Asn	Pro	His	Ile	Asn	Phe	Val	Gln	Ala	Phe	Ala	Val
145				150						155				160	
Glu	Met	Val	Ile	Thr	Ala	Ile	Leu	Met	Gly	Val	Ile	Met	Ala	Leu	Gly
			165					170						175	
Asp	Asp	Gly	Asn	Gly	Ile	Pro	Arg	Gly	Pro	Leu	Ala	Pro	Leu	Leu	Ile
			180					185					190		
Gly	Leu	Leu	Ile	Ala	Val	Ile	Gly	Ala	Ser	Met	Gly	Pro	Leu	Thr	Gly
		195					200					205			
Phe	Ala	Met	Asn	Pro	Ala	Arg	Asp	Leu	Gly	Pro	Lys	Thr	Phe	Ala	Phe
	210					215						220			
Phe	Ala	Gly	Trp	Gly	Asp	Val	Ala	Phe	Thr	Gly	Gly	Lys	Asp	Ile	Pro
225				230						235				240	
Tyr	Phe	Leu	Val	Pro	Leu	Phe	Gly	Pro	Ile	Val	Gly	Ala	Ala	Leu	Gly
			245					250						255	
Ala	Phe	Gly	Tyr	Arg	Lys	Leu	Ile	Gly	Arg	His	Leu	Pro	Cys	Asp	Thr
			260					265					270		
Cys	Val	Glu	Glu	Glu	Lys	Glu	Thr	Thr	Ser	Thr	Thr	Gln	Gln	Lys	Ala
		275					280					285			
Ser	Leu														
	290														

<210> 9995

<211> 510

<212> PRT

<213> Enterobacter cloacae

<400> 9995

Ser	Asp	Tyr	Gly	Thr	His	Thr	Met	Thr	Glu	Lys	Lys	Tyr	Ile	Val	Ala
1				5					10					15	
Leu	Asp	Gln	Gly	Thr	Thr	Ser	Ser	Arg	Ala	Val	Val	Met	Asp	His	Asp
		20						25					30		
Ala	Asn	Ile	Val	Ser	Val	Ser	Gln	Arg	Glu	Phe	Glu	Gln	Ile	Tyr	Pro
		35					40					45			
Arg	Pro	Gly	Trp	Val	Glu	His	Asp	Pro	Met	Glu	Ile	Trp	Ala	Ser	Gln

```
. <210> 9996
  <211> 342
  <212> PRT
```


<213> Enterobacter cloacae

<400> 9996

Leu Tyr Glu Tyr Leu Met Lys Arg Glu Leu Ala Ile Glu Phe Ser Arg
 1 5 10 15
 Val Thr Glu Ala Ala Leu Ala Gly Tyr Lys Trp Leu Gly Arg Gly
 20 25 30
 Asp Lys Asn Thr Ala Asp Gly Ala Ala Val His Ala Met Arg Ile Val
 35 40 45
 Leu Asn Gln Val Asn Ile Asp Gly Thr Ile Val Ile Gly Glu Gly Glu
 50 55 60
 Ile Asp Glu Ala Pro Met Leu Tyr Ile Gly Glu Lys Val Gly Thr Gly
 65 70 75 80
 Lys Gly Asp Ala Val Asp Ile Ala Val Asp Pro Ile Glu Gly Thr Arg
 85 90 95
 Met Thr Ala Met Gly Gln Ala Asn Ala Leu Ala Val Leu Ala Val Gly
 100 105 110
 Asp Lys Gly Cys Phe Leu Asn Ala Pro Asp Met Tyr Met Glu Lys Leu
 115 120 125
 Ile Val Gly Pro Gly Ala Lys Gly Ala Ile Asp Leu Ser Leu Pro Leu
 130 135 140
 Asp Ala Asn Leu Arg Asn Ile Ala Ala Leu Gly Lys Ala Leu Ser
 145 150 155 160
 Glu Leu Thr Val Thr Ile Leu Ala Lys Pro Arg His Asp Ala Thr Ile
 165 170 175
 Ala Tyr Leu Gln Thr Leu Gly Val Arg Val Phe Ala Ile Pro Asp Gly
 180 185 190
 Asp Val Ala Ala Ser Ile Leu Thr Cys Met Pro Asp Ser Glu Val Asp
 195 200 205
 Val Leu Tyr Gly Ile Gly Gly Ala Pro Glu Gly Val Val Ser Ala Ala
 210 215 220
 Val Ile Arg Ala Leu Asp Gly Asp Met Gln Ala Arg Leu Leu Pro Arg
 225 230 235 240
 His Glu Val Lys Gly Asp Ser Asp Glu Asn Leu Arg Ile Gly Ala Asp
 245 250 255
 Glu Leu Ala Arg Cys Ala Ala Met Gly Ile Glu Ala Asn Lys Val Leu
 260 265 270
 Ala Leu Asn Glu Met Ala Arg Ser Asp Asn Val Val Phe Ser Ala Thr
 275 280 285
 Gly Ile Thr Lys Gly Asp Leu Leu Asp Gly Ile Thr Arg Lys Gly Asn
 290 295 300
 Met Ala Thr Thr Glu Thr Leu Leu Ile Arg Gly Lys Ser Arg Thr Ile
 305 310 315 320
 Arg Arg Ile Lys Ser Ile His Tyr Leu Asp Arg Lys Asp Pro Asp Val
 325 330 335
 Gln Thr His Ile Leu
 340

<210> 9997

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 9997

Lys Arg Glu Thr Ala Gln Glu Lys Ile Met Ala Asp Trp Val Thr Gly
 1 5 10 15
 Lys Val Thr Lys Val Gln Phe Trp Thr Asp Ala Leu Phe Ser Leu Thr
 20 25 30
 Leu His Ala Pro Val His Pro Phe Thr Ala Gly Gln Phe Ala Lys Leu
 35 40 45
 Gly Leu Asp Ile Asp Gly Glu Arg Val Gln Arg Ala Tyr Ser Tyr Val

```
<210> 9998
<211> 424
<212> PRT
<213> Enterobacter cloacae
```

Gly 1	Ala	Leu	Arg	Met 5	Thr	Thr	Gln	Leu	Glu 10	Gln	Ala	Trp	Asp	Leu 15	Ala
Lys	Gln	Arg	Phe 20	Ala	Ala	Val	Gly	Val 25	Asp	Val	Glu	Glu	Ala 30	Leu	Arg
Gln	Leu	Asp 35	Arg	Leu	Pro	Val	Ser 40	Met	His	Cys	Trp	Gln 45	Gly	Asp	Asp
Val 50	Ala	Gly	Phe	Glu	Asn 55	Pro	Gly	Gly	Ser	Leu	Thr 60	Gly	Gly	Ile	Gln
Ala 65	Thr	Gly	Asn	Tyr 70	Pro	Gly	Lys	Ala	Arg	Asn 75	Ala	Thr	Glu	Leu	Arg 80
Ala	Asp	Leu	Glu 85	Leu	Ala	Leu	Ser	Leu 90	Ile	Pro	Gly	Pro	Lys 95	Arg	Leu
Asn	Leu	His 100	Ala	Ile	Tyr	Leu	Glu 105	Ser	Asp	Glu	Pro	Val 110	Ala	Arg	Asn
Glu	Ile 115	Lys	Pro	Glu	His	Phe	Thr 120	Asn	Trp	Val	Ala	Trp 125	Ala	Lys	Ala
Asn	Arg 130	Leu	Gly	Leu	Asp	Phe 135	Asn	Pro	Ser	Cys 140	Phe	Ser	His	Pro	Leu
Ser 145	Ala	Asp	Gly	Phe 150	Thr	Leu	Ala	His	Ala 155	Asn	Asp	Glu	Ile	Arg	Gln 160
Phe	Trp	Ile	Asp 165	His	Val	Lys	Ala	Ser 170	Arg	Val	Ser	Ala	Tyr 175	Phe	
Gly	Glu	Gln 180	Leu	Gly	Thr	Pro	Ser	Val 185	Met	Asn	Ile	Trp 190	Ile	Pro	Asp
Gly	Met	Lys 195	Asp	Ile	Thr	Val	Asp 200	Arg	Leu	Ala	Pro	Arg 205	Gln	Arg	Leu
Leu	Ala	Ala	Leu	Asp	Glu	Ala	Ile	Ser	Glu	Lys	Leu	Asp	Pro	Ala	His

```

      210                      215                      220
His Ile Asp Ala Val Glu Ser Lys Leu Phe Gly Ile Gly Ala Glu Ser
225 Tyr Thr Val Gly Ser Asn Glu Phe Tyr Met Gly Tyr Ala Thr Ser Arg
      245                      250                      255
Gln Thr Ala Leu Cys Leu Asp Ala Gly His Phe His Pro Thr Glu Val
      260                      265                      270
Ile Ser Asp Lys Ile Ser Ala Ala Met Leu Tyr Val Pro Arg Leu Leu
      275                      280                      285
Leu His Val Ser Arg Pro Val Arg Trp Asp Ser Asp His Val Val Leu
      290                      295                      300
Leu Asp Asp Glu Thr Gln Ala Ile Ala Ser Glu Ile Ile Arg His Asn
305      310                      315                      320
Leu Phe Asp Arg Val His Ile Gly Leu Asp Phe Phe Asp Ala Ser Ile
      325                      330                      335
Asn Arg Ile Ala Ala Trp Val Ile Gly Thr Arg Asn Met Lys Lys Ala
      340                      345                      350
Leu Leu Arg Ala Leu Leu Glu Pro Val Ala Ala Leu Lys Gln Leu Glu
      355                      360                      365
Glu Asn Gly Asp Tyr Thr Ala Arg Leu Ala Leu Leu Glu Glu Gln Lys
      370                      375                      380
Ser Leu Pro Trp Gln Ala Val Trp Glu Met Tyr Cys Gln Arg His Asp
385      390                      395                      400
Ala Pro Ala Gly Ser Gln Trp Leu Asp Asn Val Arg Ala Tyr Glu Lys
      405                      410                      415
Glu Val Leu Ala Ala Arg Gln
      420

```

<210> 9999

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 9999

```

Lys Thr Ser Pro Gly Gly Ala Leu Leu Ala Gly Pro Thr Asp Lys Thr
1      5      10
Arg Pro Gly Lys Arg Asn Ala Thr Arg His Phe Gln Arg Asn Tyr Ser
      20      25      30
Met Gln Thr Ile Thr Thr Ser Trp Phe Val Gln Gly Met Ile Lys Ala
      35      40      45
Thr Ser Asp Ala Trp Leu Lys Gly Trp Asp Glu Arg Asn Gly Gly Asn
      50      55      60
Leu Thr Leu Arg Leu Asp Asp Ala Asp Ile Glu Pro Phe Ala Ser Asp
      65      70      75      80
Phe His Gln Lys Pro Arg Tyr Ile Ala Leu Ser Gln Pro Met Pro Leu
      85      90      95
Leu Ala Asn Thr Pro Phe Ile Val Thr Gly Ser Gly Lys Phe Phe Arg
      100      105      110
Asn Val Gln Leu Asp Pro Glu Ala Asn Leu Gly Val Val Lys Val Asp
      115      120      125
Ser Asp Gly Ala Gly Tyr His Ile Leu Trp Gly Leu Thr Asp Asp Ala
      130      135      140
Val Pro Thr Ser Glu Leu Pro Ala His Phe Leu Ser His Cys Glu Arg
      145      150      155      160
Ile Lys Ala Thr Asn Gly Lys Asp Arg Val Ile Met His Cys His Ala
      165      170      175
Thr Asn Leu Ile Ala Leu Thr Tyr Val Leu Glu Asn Asn Ser Asp Phe
      180      185      190
Phe Thr Arg Lys Leu Trp Glu Gly Ser Thr Glu Cys Leu Val Val Phe
      195      200      205
Pro Asp Gly Val Gly Ile Leu Pro Trp Met Val Pro Gly Thr Asp Glu

```

210 215 220
 Ile Gly Gln Ala Thr Ala Thr Asp Met Gln Lys His Ser Leu Val Leu
 225 230 235 240
 Trp Pro Phe His Gly Val Phe Gly Ser Gly Pro Thr Leu Asp Glu Thr
 245 250 255
 Phe Gly Leu Ile Asp Thr Ala Glu Lys Ser Ala Glu Val Leu Val Lys
 260 265 270
 Val Tyr Ser Met Gly Gly Met Lys Gln Thr Ile Thr Arg Glu Glu Leu
 275 280 285
 Ile Ala Leu Gly Lys Arg Phe Gly Val Thr Pro Met Gln Ser Ala Leu
 290 295 300
 Asp Leu Tyr Gln
 305

<210> 10000

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 10000

1 5 10 15
 Ile Ala Gly Gly Gly Ser Leu Arg Asp Trp Arg Asp Gln His His Gly
 Arg His Arg Pro Arg Ala Arg Leu Ser Val Arg Gly Ala Val Pro Trp
 20 25 30
 Arg His Gln Gln Arg Pro Ala Gly Asp Arg Arg Leu Pro Val Leu Ala
 35 40 45
 Asp Gly Asp Phe Arg Leu Gly His Cys His Arg Cys Ala Ala Glu Arg
 50 55 60
 Ala Arg Gln Gln Ala Gln Arg Gln Ala Asp Pro Ala Arg Arg Gly Ala
 65 70 75 80
 Gly Thr Ser Glu Thr Gly Gly Glu Thr Met Ser Lys Met Met Thr Ser
 85 90 95
 Glu Glu Phe Lys Pro Thr Ser Ala Pro Gly Ile Phe Gln Arg Leu Leu
 100 105 110
 Cys Trp Glu Gly Phe Leu Leu Ala Val Thr Leu Ala Val Phe Val Val
 115 120 125
 Asn Ala Leu Ala Ser Pro Tyr Phe Leu Asn Ile Trp Asn Leu Ser Asp
 130 135 140
 Ala Thr Phe Asn Phe Thr Glu Lys Ala Ile Ile Val Leu Pro Met Ala
 145 150 155 160
 Met Leu Ile Ile Ala Arg Glu Ile Asp Leu Ser Val Ala Ser Thr Ile
 165 170 175
 Ala Leu Ser Ser Thr Val Met Gly Phe Cys Ala Ala Ala Gly Val Asp
 180 185 190
 Thr Pro Leu Leu Val Cys Val Gly Leu Gly Val Gly Leu Leu Cys Gly
 195 200 205
 Leu Phe Asn Gly Ile Leu Val Thr Arg Phe Asn Leu Ser Ser Ile Val
 210 215 220
 Ile Thr Ile Gly Thr Met Ser Leu Tyr Arg Gly Ile Thr Tyr Ile Leu
 225 230 235 240
 Leu Gly Asp Gln Ala Leu Asn Ser Tyr Pro Glu Ser Phe Ala Trp Phe
 245 250 255
 Gly Gln Gly Tyr Val Trp Gly Ala Leu Ser Phe Glu Phe Ala Leu Phe
 260 265 270
 Ile Val Leu Ala Ala Leu Phe Ala Phe Val Leu His Arg Thr Asn Phe
 275 280 285
 Gly Arg Arg Thr Tyr Ala Ile Gly Asn Asn Pro Thr Gly Ala Trp Tyr
 290 295 300
 Ser Gly Ile Asn Val Lys Arg His Asn Leu Ile Leu Phe Ala Leu Val
 305 310 315 320
 Gly Leu Met Ser Gly Leu Ala Ser Val Leu Leu Thr Ser Arg Leu Gly

Ser Thr Arg Pro Thr Ile Ala Met Gly Trp Glu Leu Ala Val Val Thr
 325 330 335
 340 345 350
 Met Ala Val Leu Gly Gly Val Asn Ile Leu Gly Gly Ser Gly Ser Met
 355 360 365
 Val Gly Val Ile Ile Ala Ala Phe Leu Met Gly Leu Val Thr Phe Gly
 370 375 380
 Leu Ser Leu Leu Asn Val Pro Gly Ile Val Met Ser Val Ile Ile Gly
 385 390 395 400
 Ala Met Leu Ile Val Val Ile Ser Leu Pro Ile Ile Thr Arg Arg Ile
 405 410 415
 Met Gln Arg Arg Arg Ile Ser
 420

<210> 10001

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10001

Gly Pro Arg Ala Val Pro Gly Gly Phe Met Ile Arg Lys Ala Phe Val
 1 5 10 15
 Met Gln Val Asn Pro Asp Ala His Glu Tyr Ala Arg Arg His Asn
 20 25 30
 Pro Ile Trp Pro Glu Leu Glu Ala Val Leu Lys Ala His Gly Ala His
 35 40 45
 His Tyr Ala Ile Tyr Leu Asp Lys Ala Arg Asn Leu Phe Ala Thr
 50 55 60
 Val Glu Ile Glu Ser Glu Glu Arg Trp Asn Ala Val Ala Asn Thr Asp
 65 70 75 80
 Val Cys Gln Arg Trp Trp Lys His Met Ala Asp Val Met Pro Ser Asn
 85 90 95
 Pro Asp Asn Ser Pro Val Ser Ala Ala Leu Asn Glu Val Phe Tyr Leu
 100 105 110
 Asp

<210> 10002

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 10002

Met Ser Ile Arg Ile Ile Pro Gln Asp Glu Leu Gly Ser Ser Glu Lys
 1 5 10 15
 Arg Thr Ala Glu Tyr Ile Pro Pro Leu Leu Phe Pro Arg Leu Lys Asn
 20 25 30
 Leu Tyr Asn Arg Arg Ala Glu Arg Leu Arg Glu Leu Ala Glu Asn Asn
 35 40 45
 Pro Leu Gly Asp Phe Leu Arg Phe Ala Ala Leu Val Ala His Ala Gln
 50 55 60
 Glu Val Val Leu Tyr Asp His Pro Leu Gln Met Asp Leu Thr Ala Arg
 65 70 75 80
 Ile Lys Glu Ala Asn Glu Gln Gly Lys Pro Pro Leu Asp Ile His Val
 85 90 95
 Leu Pro Arg Asp Lys His Trp His Lys Leu Leu His Ser Leu Ile Ala
 100 105 110
 Glu Leu Lys Pro Glu Met Ser Gly Thr Ala Leu Ala Val Ile Glu Asn
 115 120 125
 Leu Glu Lys Ala Ser Glu Gln Glu Leu Glu Glu Met Ala Ser Ala Leu
 130 135 140

Phe Ala Ser Asp Phe Ser Leu Val Ser Ser Asp Lys Ala Pro Phe Ile
 145 150 155 160
 Trp Ala Ala Leu Ser Leu Tyr Trp Ala Gln Met Ala Ser Leu Ile Pro
 165 170 175
 Gly Lys Ala Arg Ala Glu Tyr Gly Glu Ala Arg Gln Phe Cys Pro Val
 180 185 190
 Cys Gly Ser Met Pro Val Ser Ser Met Val Gln Ile Gly Thr Thr Gln
 195 200 205
 Gly Leu Arg Tyr Leu His Cys Asn Leu Cys Glu Thr Glu Trp His Val
 210 215 220
 Val Arg Val Lys Cys Ser Asn Cys Glu Gln Thr Arg Asp Leu Asn Tyr
 225 230 235 240
 Trp Ser Leu Glu Asn Glu Asp Ala Val Lys Ala Glu Ser Cys Gly
 245 250 255
 Asp Cys Gly Thr Tyr Leu Lys Ile Leu Tyr Gln Glu Lys Asp Pro Lys
 260 265 270
 Val Glu Ala Val Ala Asp Asp Leu Ala Ser Leu Ile Leu Asp Ala Lys
 275 280 285
 Met Glu Gln Glu Gly Phe Ala Arg Ser Ser Ile Asn Pro Phe Leu Phe
 290 295 300 305
 Pro Gly Glu Gly Glu 310

<210> 10003

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 10003

Ser Cys Thr Phe Ile Gln Leu Lys Gly Val Phe Met Ala Leu Glu Lys
 1 5 10 15
 Gly Ile Glu Arg Leu Val Gln Gly Phe Ile Ala Ala Gly Arg Pro Ser
 20 25 30
 Ser Arg Arg Gln Thr Ile Glu Val Arg Arg Ala Gly Tyr Ile Ala Ser
 35 40 45
 Thr Glu Leu Ala Gly Lys Thr Glu Thr Arg Val Gln Leu Glu Thr Leu
 50 55 60
 Val Leu Glu Gly Leu Thr Ile Arg Val Phe Ser Pro Leu Asn Ala Pro
 65 70 75 80
 Glu Ile Leu Pro Ala Ala Ile Tyr Tyr His Gly Gly Cys Phe Ile Ser
 85 90 95
 Gly Gly Phe Asp Thr His Asp Asn Gln Leu Arg Gln Leu Ala Tyr Tyr
 100 105 110
 Gly Asn Cys Arg Val Ile Ala Ile Gln Tyr Arg Leu Ala Pro Glu His
 115 120 125
 Thr Phe Pro Ala Ala His Asp Asp Ala Glu Arg Gly Ala Asn Leu Val
 130 135 140
 Trp Gln Tyr Ala Asp Glu Leu Gly Val Asp Lys Asn Arg Leu Thr Leu
 145 150 155 160
 Cys Gly Asp Ser Ala Gly Gly His Leu Ala Leu Val Thr Ser Leu Arg
 165 170 175
 Leu Lys Ala Lys Gly Leu Trp Asp Pro Ala Gln Leu Ile Leu Ile Tyr
 180 185 190
 Pro Met Leu Asp Ala Thr Ala Ser Leu Glu Ser Tyr Thr Leu Asn Gly
 195 200 205
 Met Asp Tyr Val Ile Thr Arg Asp Thr Leu Leu Ser Gly Tyr Glu Met
 210 215 220
 Tyr Leu Ala Gly Ala Asp Arg Gln His Pro Glu Val Ser Pro Leu Trp
 225 230 235 240
 Arg Asn Asp Phe Ser Gly Leu Pro Lys Val His Ile Val Thr Ala Glu
 245 250 255

Tyr Asp Pro Leu Arg Asp Glu Gly Glu Ala Leu Tyr Gln Arg Leu Thr
 260 265 270
 Ala Gln Gly Val Lys Cys Thr Ala Gln Gln Trp Arg Gly Val Ile His
 275 280 285
 Gly Phe Phe Gln Leu Gly Gly Ile Ser Gln Ser Ala Arg Asp Ile Met
 290 295 300
 Arg Asp Ile Ala Trp Arg Ile Asn His Ala Gly Arg Glu
 305 310 315

<210> 10004

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 10004

Gln Glu Arg Gly Met Ser Ala Ile Ala Phe Ile Gly Leu Gly Gln Met
 1 5 10 15
 Gly Ala Pro Met Ala Lys Asn Leu Leu Lys Gln Gly His Gln Leu Asn
 20 25 30
 Val Phe Asp Val Asn Pro Gln Ala Ile Gln Ala Leu Val Glu Ser Gly
 35 40 45
 Ala Arg Ala Ala Ala Thr Pro Ala Gln Ala Ala Thr Asp Ala Glu Phe
 50 55 60
 Val Ile Thr Met Leu Pro Asn Gly Asp Leu Val Arg Ser Val Leu Phe
 65 70 75 80
 Gly Glu His Gly Val Cys Glu Gly Leu Ser Arg Asp Ala Leu Val Ile
 85 90 95
 Asp Met Ser Thr Ile His Pro Leu Gln Thr Asp Ala Leu Ile Arg Asp
 100 105 110
 Met Ala Glu Gln Gly Phe Ser Leu Met Asp Val Pro Val Gly Arg Thr
 115 120 125
 Ser Asp His Ala Ile Ala Gly Thr Leu Leu Leu Leu Ala Gly Gly Thr
 130 135 140
 Ala Gln Gln Val Glu Arg Ala Thr Pro Val Leu Met Ala Met Gly Asn
 145 150 155 160
 Glu Leu Ile Asn Ala Gly Gly Pro Gly Met Gly Ile Arg Val Lys Leu
 165 170 175
 Ile Asn Asn Tyr Met Ser Ile Ala Leu Asn Ala Leu Ser Ala Glu Ala
 180 185 190
 Ala Val Leu Cys Glu Ala Leu Gly Leu Ser Phe Asp Val Ala Leu Lys
 195 200 205
 Val Met Ser Gly Thr Pro Ala Gly Lys Gly His Phe Thr Thr Ser Trp
 210 215 220
 Pro Asn Lys Val Leu Lys Gly Asp Leu Ser Pro Ala Phe Met Ile Asp
 225 230 235 240
 Leu Ala His Lys Asp Leu Gly Ile Ala Leu Asp Val Ala Asn Gln Leu
 245 250 255
 His Val Pro Met Pro Leu Gly Ala Ala Ser Arg Glu Val Tyr Asn Gln
 260 265 270
 Ala Arg Ala Ala Gly Arg Gly Arg Glu Asp Trp Thr Ala Ile Leu Glu
 275 280 285
 Gln Val Arg Ala Ser Ala Gly Leu Lys Lys Ser His
 290 295 300

<210> 10005

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 10005

Gly Ser Thr Met Thr His Asn Thr Asp Pro Leu Thr Leu Lys Leu Ser

1	5	10	15
Leu Arg Glu Lys Cys Ala Tyr Gly Met Gly Asp Phe Gly Ser Asn Leu			
20		25	30
Met Leu Cys Ile Gly Thr Leu Tyr Leu Lys Phe Tyr Thr Asp Glu			
35		40	45
Leu Gly Met Pro Ala Phe Tyr Gly Gly Ile Ile Phe Leu Val Ala Lys			
50		55	60
Phe Phe Thr Ala Phe Thr Asp Met Leu Thr Gly Val Leu Leu Asp Ser			
65		70	75
Arg Arg Asn Ile Gly Ala Arg Gly Lys Phe Arg Pro Phe Ile Leu Tyr			
	85	90	95
Ala Ser Val Pro Val Ala Leu Val Ala Thr Ala Gln Phe Met Ala Asn			
	100	105	110
Asp Phe Ser Leu Thr Val Lys Thr Ala Leu Ala Thr Val Leu Phe Met			
	115	120	125
Met Phe Gly Leu Cys Tyr Ser Leu Met Asn Cys Ala Tyr Gly Ala Met			
	130	135	140
Val Pro Ala Ile Thr Lys Asn Pro Asn Glu Arg Ala Gln Leu Ala Ala			
145		150	155
Trp Arg Gln Gly Gly Ala Thr Val Gly Leu Leu Leu Cys Thr Val Gly			
	165	170	175
Phe Met Pro Ile Gln Ala Leu Phe Val Ser Gln Pro Ser Leu Gly Tyr			
	180	185	190
Leu Val Ala Ala Leu Val Phe Val Thr Gly Gly Leu Phe Cys Met Trp			
	195	200	205
Trp Cys Tyr Ser Gly Val Lys Glu Arg Tyr Val Glu Leu Thr Pro Asp			
	210	215	220
His His Lys Pro Gly Ile Leu Lys Ser Phe Cys Ala Ile Phe Arg Asn			
225		230	235
Pro Pro Leu Leu Val Leu Cys Ile Ala Asn Leu Cys Thr Leu Ala Ala			
	245	250	255
Phe Asn Ile Lys Leu Ala Ile Gln Val Tyr Tyr Thr Gln Tyr Val Leu			
	260	265	270
Asn Asp Val His Leu Leu Ser Trp Met Gly Phe Phe Ser Met Gly Cys			
	275	280	285
Ile Leu Ile Gly Val Phe Leu Val Pro Gly Ala Val Lys Arg Phe Gly			
	290	295	300
Lys Lys Pro Val Tyr Leu Gly Gly Leu Thr Leu Trp Ala Val Gly Asp			
305		310	315
Val Leu Asn Phe Val Trp Gly Thr Ser Ser Leu Leu Phe Val Leu Phe			
	325	330	335
Ser Cys Met Ala Phe Phe Gly Thr Ala Phe Val Asn Ser Leu Asn Trp			
	340	345	350
Ala Leu Val Pro Asp Thr Val Asp Tyr Gly Glu Trp Lys Thr Gly Ile			
	355	360	365
Arg Ala Glu Gly Ser Val Tyr Thr Gly Tyr Thr Phe Ser Arg Lys Ile			
	370	375	380
Ser Ala Ala Leu Ala Gly Phe Leu Pro Gly Ile Met Leu Thr Gln Ile			
385		390	395
Gly Tyr Val Pro His Ala Val Gln Ser Ala Gly Thr Leu Leu Gly Leu			
	405	410	415
Arg Gln Leu Ile Phe Leu Trp Pro Cys Gly Leu Ala Ile Val Ala Ala			
	420	425	430
Val Thr Met Gly Leu Phe Tyr Lys Leu Asn Glu Ala Arg Phe Ala Phe			
	435	440	445
Ile Ile Glu Glu Ile Gly Lys Arg Lys Lys Gln Thr Ala Asn Thr Pro			
	450	455	460
Glu Ile Thr Thr Asn Asn Lys Ala Ser Ala Val Thr Leu			
465		470	475

<211> 477

<212> PRT

<213> Enterobacter cloacae

<400> 10006

Lys	Ile	Lys	Val	Thr	Phe	Met	Gln	Arg	Gly	Ile	Val	Trp	Val	Val	Asp
1				5					10					15	
Asp	Asp	Ser	Ser	Ile	Arg	Trp	Val	Leu	Glu	Arg	Ala	Leu	Thr	Gly	Ala
		20						25				30			
Gly	Leu	Ser	Cys	Thr	Thr	Phe	Glu	Ser	Gly	Ser	Glu	Val	Leu	Asp	Ala
		35					40				45				
Leu	Thr	Thr	Lys	Thr	Pro	Asp	Val	Leu	Leu	Ser	Asp	Ile	Arg	Met	Pro
	50					55					60				
Gly	Met	Asp	Gly	Leu	Ala	Leu	Lys	Gln	Ile	Lys	Gln	Arg	His	Pro	
65				70					75					80	
Met	Leu	Pro	Val	Ile	Met	Thr	Ala	His	Ser	Asp	Leu	Asp	Ala	Ala	
				85				90					95		
Val	Ser	Ala	Tyr	Gln	Gln	Gly	Ala	Phe	Asp	Tyr	Leu	Pro	Lys	Pro	Phe
			100					105					110		
Asp	Ile	Asp	Glu	Ala	Val	Ala	Leu	Val	Glu	Arg	Ala	Ile	Ser	His	Tyr
		115					120					125			
Gln	Glu	Gln	Gln	Gln	Pro	Arg	His	Ala	Pro	Asp	Phe	Gly	Pro	Thr	Thr
		130				135					140				
Asp	Ile	Ile	Gly	Glu	Ala	Pro	Ala	Met	Gln	Asp	Val	Phe	Arg	Ile	Ile
145				150					155					160	
Gly	Arg	Leu	Ser	Arg	Ser	Ser	Ile	Ser	Val	Leu	Ile	Asn	Gly	Glu	Ser
				165					170					175	
Gly	Thr	Gly	Lys	Glu	Leu	Val	Ala	His	Ala	Leu	His	Arg	His	Ser	Pro
			180					185					190		
Arg	Ala	Lys	Ala	Pro	Phe	Ile	Ala	Leu	Asn	Met	Ala	Ala	Ile	Pro	Lys
		195					200					205			
Asp	Leu	Ile	Glu	Ser	Glu	Leu	Phe	Gly	His	Glu	Lys	Gly	Ala	Phe	Thr
		210				215					220				
Gly	Ala	Asn	Thr	Ile	Arg	Gln	Gly	Arg	Phe	Glu	Gln	Ala	Asp	Gly	Gly
225				230						235				240	
Thr	Leu	Phe	Leu	Asp	Glu	Ile	Gly	Asp	Met	Pro	Leu	Asp	Val	Gln	Thr
				245					250					255	
Arg	Leu	Leu	Arg	Val	Leu	Ala	Asp	Gly	Gln	Phe	Tyr	Arg	Val	Gly	Gly
			260					265					270		
Tyr	Ala	Pro	Val	Lys	Val	Asp	Val	Arg	Ile	Ile	Ala	Ala	Thr	His	Gln
		275					280					285			
Asn	Leu	Glu	Leu	Arg	Val	Gln	Glu	Gly	Lys	Phe	Arg	Glu	Asp	Leu	Phe
		290				295					300				
His	Arg	Leu	Asn	Val	Ile	Arg	Val	His	Leu	Pro	Pro	Leu	Arg	Glu	Arg
305				310						315				320	
Arg	Glu	Asp	Ile	Pro	Arg	Leu	Ala	Arg	His	Phe	Leu	Gln	Val	Ala	Ala
				325					330					335	
Arg	Glu	Leu	Gly	Val	Glu	Ala	Lys	Gln	Leu	His	Gln	Glu	Thr	Asp	Ala
			340					345					350		
Ala	Leu	Thr	Arg	Leu	Ala	Trp	Pro	Gly	Asn	Val	Arg	Gln	Leu	Glu	Asn
		355					360					365			
Thr	Cys	Arg	Trp	Leu	Thr	Val	Met	Ala	Ala	Gly	Gln	Glu	Val	Leu	Ile
		370				375					380				
Gln	Asp	Leu	Pro	Ala	Glu	Leu	Phe	Glu	Ala	Thr	Val	Pro	Glu	Ser	Thr
385				390						395				400	
Ala	Gly	His	Ala	Leu	Pro	Asp	Ser	Trp	Ala	Thr	Leu	Leu	Ala	Gln	Trp
				405					410					415	
Ala	Asp	Arg	Ala	Leu	Arg	Ser	Gly	His	Gln	Asn	Leu	Leu	Ser	Glu	Ala
			420					425					430		
Gln	Pro	Glu	Met	Glu	Arg	Thr	Leu	Leu	Thr	Thr	Ala	Leu	Arg	His	Thr
		435					440					445			

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500

Gln Gly His Lys Gln Glu Ala Ala Arg Leu Leu Gly Trp Gly Arg Asn
 450 455 460
 Thr Leu Thr Arg Lys Leu Lys Glu Leu Gly Met Glu
 465 470 475

<210> 10007

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 10007

Cys Ala Asp Leu Ser Ser Ser Arg Gly Gly Arg His Lys Ala Leu Met
 1 5 10 15
 Ala Thr Glu Gly Val Asn Ile Glu Phe Thr Asp Asp Gly Ile Lys Arg
 20 25 30
 Ile Ala Gln Ala Ala Trp Gln Val Asn Glu Thr Thr Glu Asn Ile Gly
 35 40 45
 Ala Arg Arg Leu His Thr Val Leu Glu Arg Leu Met Glu Asp Ile Ser
 50 55 60
 Tyr Asp Ala Ser Asp Leu Asn Gly Gln Ser Ile Thr Ile Asp Ala Asp
 65 70 75 80
 Tyr Val Gly Lys His Leu Asp Ala Leu Val Ala Asp Glu Asp Leu Ser
 85 90 95
 Arg Phe Ile Leu
 100

<210> 10008

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 10008

Arg Pro Gly Ala Met Leu Met Lys Ser Ser Ala His Ser Leu Tyr Leu
 1 5 10 15
 Cys Leu Ala Met Leu Ser Ala Ser Phe Ser Leu Tyr Ala Thr Glu Thr
 20 25 30
 Ala Ser Pro Val Thr Ala Pro Tyr Leu Leu Ala Gly Ala Pro Ser Phe
 35 40 45
 Asp Gln Ser Ile Ser Gln Phe Arg Glu Ala Phe Asn Lys Glu Asn Pro
 50 55 60
 Ser Leu Pro Leu Gly Glu Phe Arg Ala Ile Asp Ser Ala Arg Asp Thr
 65 70 75 80
 Pro Thr Leu Thr Arg Ala Ala Ser Lys Ile Asn Glu Asn Leu Tyr Ala
 85 90 95
 Ser Thr Ala Leu Glu Arg Gly Thr Leu Lys Ile Lys Ser Met Gln Ile
 100 105 110
 Thr Trp Leu Pro Ile Gln Gly Pro Glu Gln Lys Ala Ala Lys Ala Lys
 115 120 125
 Ala Leu Glu Tyr Met Ser Ala Ile Leu Arg Ala Phe Thr Pro Thr Phe
 130 135 140
 Thr Lys Ala Gln Ser Gln Gln Lys Leu Gln Lys Leu Leu Thr Ala Gly
 145 150 155 160
 Lys Asn Lys Arg Tyr Tyr Ala Asp Thr Glu Gly Ala Val Arg Tyr Val
 165 170 175
 Val Ala Asp Asn Gly Glu Lys Gly Leu Thr Phe Ala Val Glu Pro Ile
 180 185 190
 Lys Leu Ala Leu Ser Asp Ala Leu Glu Gly Ala Asn
 195 200 205

<210> 10009

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 10009

Ala	Trp	Arg	Ile	Glu	Met	Arg	His	Pro	Leu	Val	Met	Gly	Asn	Trp	Lys
1			5					10					15		
Leu	Asn	Gly	Ser	Arg	His	Met	Val	Asn	Glu	Leu	Val	Ala	Asn	Leu	Arg
		20						25					30		
Lys	Glu	Leu	Ala	Gly	Val	Thr	Gly	Cys	Ala	Val	Ala	Ile	Ala	Pro	Pro
		35					40					45			
Asp	Met	Tyr	Leu	Asp	Leu	Ala	Lys	Arg	Ala	Ala	Asp	Gly	Ser	His	Ile
	50					55					60				
Ile	Leu	Gly	Ala	Gln	Asn	Val	Asp	Val	Asn	Leu	Ser	Gly	Ala	Phe	Thr
65					70					75				80	
Gly	Glu	Thr	Ser	Ala	Glu	Met	Leu	Lys	Asp	Ile	Gly	Ala	Lys	Tyr	Ile
			85						90					95	
Ile	Ile	Gly	His	Ser	Glu	Arg	Arg	Thr	Tyr	His	Lys	Glu	Ser	Asp	Glu
			100					105					110		
Phe	Ile	Ala	Lys	Lys	Phe	Ala	Val	Leu	Lys	Glu	Gln	Gly	Leu	Ile	Pro
		115					120					125			
Val	Leu	Cys	Ile	Gly	Glu	Thr	Glu	Ala	Glu	Asn	Glu	Ala	Gly	Lys	Thr
	130					135					140				
Glu	Glu	Val	Cys	Ala	Arg	Gln	Ile	Asp	Ala	Val	Leu	Lys	Thr	Gln	Gly
145					150					155				160	
Ala	Ala	Ala	Phe	Glu	Gly	Ala	Val	Ile	Ala	Tyr	Glu	Pro	Val	Trp	Ala
			165						170					175	
Ile	Gly	Thr	Gly	Lys	Ser	Ala	Thr	Pro	Ala	Gln	Ala	Gln	Ala	Val	His
			180					185					190		
Lys	Phe	Ile	Arg	Asp	His	Ile	Ala	Lys	Ala	Asp	Ala	Lys	Val	Ala	Glu
		195					200					205			
Gln	Val	Ile	Ile	Gln	Tyr	Gly	Gly	Ser	Val	Asn	Ala	Ser	Asn	Ala	Ala
	210					215					220				
Glu	Leu	Phe	Thr	Gln	Pro	Asp	Ile	Asp	Gly	Ala	Leu	Val	Gly	Gly	Ala
225					230					235				240	
Ser	Leu	Lys	Ala	Asp	Ala	Phe	Ala	Val	Ile	Val	Lys	Ala	Ala	Glu	Ala
			245						250					255	
Ala	Lys	Gln	Ala												
			260												

<210> 10010

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 10010

Arg	Arg	Ser	Ser	Leu	Val	Gln	Asn	Pro	Ala	Trp	Ser	Trp	Leu	Ser	Asp
1				5				10					15		
Gly	Phe	Arg	Phe	Met	Ile	Gly	Ser	Leu	Thr	Ala	Arg	Ile	Phe	Ala	Ile
		20						25					30		
Phe	Trp	Leu	Thr	Leu	Ala	Leu	Val	Leu	Met	Leu	Val	Leu	Met	Leu	Pro
		35					40					45			
Lys	Leu	Asp	Ser	Arg	Gln	Met	Thr	Glu	Leu	Leu	Asp	Ser	Glu	Gln	Arg
	50					55					60				
Gln	Gly	Val	Met	Ile	Glu	Gln	His	Val	Glu	Ala	Glu	Leu	Ala	Asn	Asp
65					70					75				80	
Pro	Pro	Asn	Asp	Leu	Met	Trp	Trp	Arg	Arg	Leu	Phe	Arg	Ala	Ile	Asp
			85					90					95		
Lys	Trp	Ala	Pro	Pro	Gly	Gln	Arg	Leu	Leu	Leu	Val	Thr	Ser	Glu	Gly
			100					105					110		
Arg	Val	Ile	Gly	Ala	Asp	Arg	Asn	Glu	Met	Gln	Ile	Ile	Arg	Asn	Phe
		115					120					125			

```

Ile Gly Gln Ala Asp Asn Ala Asp His Pro Gln Lys Lys Lys Tyr Gly
130 135 140
Arg Val Glu Met Val Gly Pro Phe Ser Val Arg Asp Gly Glu Asp Asn
145 150 155 160
Tyr Gln Leu Tyr Leu Ile Arg Pro Ala Ser Ser Ser Gln Ser Asp Phe
165 170 175
Ile Asn Leu Leu Phe Asp Arg Pro Leu Leu Leu Ile Val Thr Met
180 185 190
Leu Val Ser Ser Pro Leu Leu Leu Trp Leu Ala Trp Ser Leu Ala Lys
195 200 205
Pro Ala Arg Lys Leu Lys Asn Ala Ala Asp Glu Val Ala Gln Gly Asn
210 215 220
Leu Arg Gln His Pro Glu Leu Glu Ser Gly Pro Gln Glu Phe Leu Ala
225 230 235 240
Ala Gly Thr Ser Phe Asn Gln Met Val Ser Ala Leu Asp Arg Met Met
245 250 255
Thr Ala Gln Gln Arg Leu Leu Ser Asp Ile Ser His Glu Leu Arg Thr
260 265 270
Pro Leu Thr Arg Leu Gln Leu Gly Thr Ala Leu Leu Arg Arg Arg Ser
275 280 285
Gly Glu Ser Lys Glu Leu Glu Arg Ile Glu Thr Glu Ala His Arg Leu
290 295 300
Asp Ser Met Ile Asn Asp Leu Leu Val Met Ser Arg Asn Gln Gln Lys
305 310 315 320
Asn Ala Leu Val Ser Glu Thr Val Lys Ala Asn His Leu Trp His Glu
325 330 335
Val Leu Asp Asn Ala Ala Phe Glu Ala Glu Gln Met Gly Lys Ser Phe
340 345 350
Thr Val Asn Phe Pro Pro Gly Pro Trp Pro Leu Tyr Gly Asn Pro Asn
355 360 365
Ala Leu Glu Ser Ala Leu Glu Asn Ile Val Arg Asn Ala Leu Arg Tyr
370 375 380
Ser His Thr Lys Ile Glu Val Ala Phe Ser Val Asp Lys Asp Gly Ile
385 390 395 400
Thr Val Ile Val Asp Asp Asp Gly Pro Gly Val Ser Pro Glu Asp Arg
405 410 415
Glu Gln Ile Phe Arg Pro Phe Tyr Arg Thr Asp Glu Ala Arg Asp Arg
420 425 430
Glu Ser Gly Gly Thr Gly Leu Gly Leu Ala Ile Val Glu Thr Ala Met
435 440 445
Gln Gln His Arg Gly Trp Val Lys Ala Asp Asp Ser Pro Leu Gly Gly
450 455 460
Leu Arg Leu Thr Leu Trp Leu Pro Leu Tyr Lys Arg Ser
465 470 475

```

<210> 10011

<211> 569

<212> PRT

<213> Enterobacter cloacae

<400> 10011

```

Ile Phe Asp Ser Lys Pro Arg Lys Ser Cys Arg Phe Phe Lys Lys Gln
1 5 10 15
Ala Glu Arg Ser Gly Asn Ala Val Ser Val Thr Leu Pro Ala Asn Pro
20 25 30
Ala Ile Thr Gly Asn Cys Glu Leu Pro His Val His Leu Cys Phe Leu
35 40 45
Ala Ser Ala Arg Phe Gly Leu Ser Val Ala Arg Arg Trp Leu Phe Leu
50 55 60
Pro Phe Leu Thr Leu Leu Ala Asn Asp Leu Arg Lys Asp Pro Thr Met
65 70 75 80

```

Thr	Phe	Arg	His	Cys	Val	Ala	Val	Asp	Leu	Gly	Ala	Ser	Ser	Gly	Arg
Val	Met	Leu	Ala	Thr	Trp	Asp	Cys	Asp	Leu	His	Thr	Leu	Thr	Leu	Arg
Glu	Met	His	Arg	Phe	Ala	Asn	Cys	Leu	Gln	Lys	Gln	Asp	Gly	Phe	Val
Thr	Trp	Asp	Ile	Asp	Ala	Leu	Glu	Ala	Glu	Ile	Arg	Thr	Gly	Leu	His
Asn	Val	Cys	Glu	Asp	Gly	Ile	Arg	Ile	Asp	Ser	Ile	Gly	Ile	Asp	Thr
Trp	Gly	Val	Asp	Tyr	Val	Leu	Leu	Asp	Arg	His	Gly	Glu	Arg	Val	Gly
Leu	Pro	Val	Ser	Tyr	Arg	Asp	Ser	Arg	Thr	Asp	Gly	Leu	Met	Ala	His
Ala	Ile	Ala	Gln	Leu	Gly	Lys	Glu	Asn	Ile	Tyr	Gly	Arg	Ser	Gly	Ile
Gln	Phe	Leu	Pro	Phe	Asn	Thr	Leu	Tyr	Gln	Leu	Arg	Ala	Leu	Val	Glu
Gln	Gln	Pro	Glu	Leu	Val	Glu	Lys	Val	Ala	His	Ala	Leu	Leu	Ile	Pro
Asp	Tyr	Leu	Ser	Tyr	Arg	Leu	Thr	Gly	Asn	Met	Asn	Trp	Glu	Tyr	Thr
Asn	Ala	Thr	Thr	Thr	Gln	Leu	Val	Asn	Ile	Asn	Thr	Asp	Asn	Trp	Asp
Glu	His	Leu	Leu	Ala	Trp	Thr	Gly	Ala	Ser	Pro	Ser	Trp	Phe	Gly	Ala
Pro	Thr	His	Pro	Gly	Asn	Val	Ile	Gly	His	Trp	Leu	Cys	Pro	Gln	Gly
Asn	Lys	Ile	Pro	Val	Val	Ala	Val	Ala	Ser	His	Asp	Thr	Ala	Ser	Ala
Val	Ile	Ala	Ser	Pro	Leu	Ala	Gly	Lys	Asp	Ala	Ala	Tyr	Leu	Ser	Ser
Gly	Thr	Trp	Ser	Leu	Met	Gly	Phe	Glu	Ser	Lys	Thr	Pro	Tyr	Thr	Ser
Asp	Ala	Ala	Leu	Ala	Ala	Asn	Ile	Thr	Asn	Glu	Gly	Gly	Ala	Glu	Gly
Arg	Tyr	Arg	Val	Leu	Lys	Asn	Ile	Met	Gly	Leu	Trp	Leu	Leu	Gln	Arg
Val	Leu	Lys	Glu	Gln	Asn	Ile	Thr	Asp	Leu	Pro	Glu	Leu	Ile	Ala	Glu
Thr	Glu	Thr	Leu	Lys	Ala	Cys	Thr	Phe	Leu	Ile	Asn	Pro	Asn	Asp	Asp
Arg	Phe	Ile	Asn	Pro	Ala	His	Met	Ser	Ala	Glu	Ile	Gln	Ala	Ala	Cys
Phe	Glu	Ala	Gly	Gln	Pro	Val	Pro	Ser	Arg	Pro	Ala	Glu	Leu	Ala	Arg
Cys	Ile	Phe	Asp	Ser	Leu	Ala	Leu	Leu	Tyr	Ala	Asp	Ile	Leu	Ser	Glu
Leu	Ala	Asp	Leu	Arg	Gly	Lys	Pro	Phe	Thr	Gln	Leu	His	Ile	Val	Gly
Gly	Gly	Cys	Gln	Asn	Gln	Leu	Leu	Asn	Gln	Leu	Cys	Ala	Asp	Ala	Cys
Gly	Ile	Thr	Val	Val	Ala	Gly	Pro	Ile	Glu	Ala	Ser	Thr	Leu	Gly	Asn
Ile	Gly	Ile	Gln	Leu	Met	Thr	Leu	Asp	Glu	Leu	Ser	Asn	Val	Asp	Asp
Phe	Arg	Ser	Val	Val	Thr	Ala	Asn	Asn	Ser	Leu	Thr	Thr	Phe	Thr	Pro
His	Pro	Cys	His	Glu	Ile	Ala	Arg	Tyr	Arg	Ala	Gln	Phe	Gln	Gln	Lys
Arg	Leu	Thr	Lys	Glu	Leu	Cys	Ala			555					560

565

<210> 10012

<211> 361

<212> PRT

<213> Enterobacter cloacae

<400> 10012

```

Ile Cys Thr Asn Asn Ile Ala Pro Arg Ser Pro Arg Arg Gly Glu
1      5      10      15
Asn His Leu Gln Ser Leu Gln Leu Thr Gln Val Ser Gly Val Lys Ala
20      25      30
Met Lys Ile Lys Ala Ser Leu Ile Leu Thr Val Ala Ala Leu Ala Leu
35      40      45
Ser Gly Ser Ala Leu Ala Glu Val Lys Ile Ala Leu Val Ala Lys Ser
50      55      60
Leu Gly Asn Gly Phe Phe Glu Ala Ala Asn Val Gly Ala Gln Glu Ala
65      70      75      80
Ala Lys Glu Leu Gly Asp Val Lys Val Ile Tyr Thr Gly Pro Thr Thr
85      90      95
Thr Thr Ala Glu Ala Gln Ile Glu Val Leu Asn Gly Leu Ile Ala Gln
100      105      110
Gly Val Asp Ala Ile Ala Ile Ser Ala Asn Asp Pro Asp Ala Val Val
115      120      125
Pro Val Leu Lys Lys Ala Met Gln Arg Gly Ile Lys Val Val Ser Trp
130      135      140
Asp Ser Gly Val Ala Lys Ala Gly Arg Gln Ile His Leu Asn Pro Ser
145      150      155      160
Asn Asn Ala Leu Ile Gly Glu Thr Asn Val Lys Leu Ala Ala Asp Ala
165      170      175
Leu Lys Ala Leu Asn Val Glu Lys Gly Glu Val Ala Val Leu Ser Ala
180      185      190
Thr Pro Thr Ser Thr Asn Gln Asn Thr Trp Ile Ala Glu Met Lys Lys
195      200      205
Val Leu Pro Lys Tyr Pro Ser Val Asn Leu Val Thr Val Ala Tyr Gly
210      215      220
Asp Asp Leu Ser Asp Lys Ser Tyr Arg Glu Ala Val Gly Leu Leu Lys
225      230      235      240
Thr Tyr Pro Glu Leu Lys Val Ile Val Ser Pro Ser Ser Val Gly Ile
245      250      255
Val Ala Ala Ala Gln Ala Val Lys Asp Gln Gly Lys Ile Gly Lys Val
260      265      270
Tyr Val Thr Gly Leu Gly Leu Pro Ser Glu Met Ala Gly Ala Val Lys
275      280      285
Ser Gly Ala Ser Lys Ser Phe Ala Ile Trp Asn Pro Ile Asp Leu Gly
290      295      300
Tyr Ala Ala Thr Tyr Leu Ala Asp Asp Leu Val Lys Gly Thr Ala Thr
305      310      315      320
Lys Gly-Glu Ala Ser Met Gly Lys Leu Gly Lys Val Lys Leu Asp Ala
325      330      335
Asp Gly Asn Gly Ala Met Ala Glu Pro Phe Val Tyr Asp Ala Ser Asn
340      345      350
Ile Asp Lys Phe Ser Lys Ile Phe
355      360

```

<210> 10013

<211> 507

<212> PRT

<213> Enterobacter cloacae

<400> 10013

Thr	Lys	Arg	Arg	Thr	Ile	Met	Thr	Pro	Leu	Leu	Gln	Leu	Ser	Gly	Ile
1				5					10					15	
Thr	Lys	Val	Phe	Pro	Gly	Val	Arg	Ala	Leu	Glu	Asn	Val	Gln	Leu	Ala
			20					25					30		
Leu	Trp	Pro	Gly	Lys	Val	Thr	Ala	Leu	Ile	Gly	Glu	Asn	Gly	Ala	Gly
		35					40					45			
Lys	Ser	Thr	Leu	Val	Lys	Val	Met	Thr	Gly	Ile	Tyr	Gln	Pro	Asp	Glu
	50					55					60				
Gly	Glu	Ile	Leu	Tyr	Lys	Ala	Ile	Pro	Val	His	Leu	Pro	Thr	Pro	Glu
65					70					75					80
Ser	Ala	His	Lys	Met	Gly	Ile	Thr	Ala	Ile	His	Gln	Glu	Thr	Val	Leu
				85					90					95	
Phe	Asp	Glu	Leu	Ser	Val	Thr	Glu	Asn	Ile	Phe	Val	Gly	Gln	Tyr	Leu
			100					105					110		
His	Lys	Gly	Phe	Leu	Lys	Lys	Leu	Asp	Trp	Pro	Glu	Met	His	Arg	Arg
		115					120					125			
Ala	Gln	Ala	Ile	Leu	Ala	Arg	Leu	Glu	Val	Gln	Ile	Asp	Pro	Arg	Ala
		130					135					140			
Thr	Leu	Lys	Thr	Leu	Ser	Ile	Ala	Gln	Arg	His	Met	Val	Ala	Ile	Ala
145					150					155					160
Arg	Ala	Leu	Ser	Phe	Glu	Ala	Gln	Val	Val	Ile	Leu	Asp	Glu	Pro	Thr
				165					170					175	
Ala	Ala	Leu	Ser	Gln	His	Glu	Ile	Leu	Glu	Phe	Tyr	Gln	Ile	Val	Glu
			180					185					190		
Arg	Leu	Lys	Gln	Glu	Gly	Lys	Ala	Ile	Leu	Phe	Ile	Ser	His	Lys	Phe
		195					200					205			
Asp	Glu	Ile	Phe	Glu	Leu	Ala	Asp	His	Tyr	Thr	Ile	Leu	Arg	Asp	Gly
	210					215						220			
Val	Phe	Val	Gly	Ala	Gly	Ala	Ile	Asn	Glu	Ile	Thr	Glu	Glu	Arg	Met
225					230					235					240
Val	Ser	Met	Met	Val	Gly	Arg	Ala	Ile	Thr	Gln	Thr	Phe	Pro	Lys	Ile
				245					250					255	
Asp	Cys	Glu	Lys	Gly	Glu	Thr	Val	Leu	Glu	Val	Gln	Asn	Leu	Cys	His
			260					265					270		
Pro	Thr	Glu	Phe	Ala	His	Ile	Ser	Phe	Ser	Leu	Arg	Lys	Gly	Glu	Ile
		275					280					285			
Leu	Gly	Phe	Tyr	Gly	Leu	Val	Gly	Ala	Gly	Arg	Thr	Glu	Leu	Met	Gln
	290					295						300			
Ala	Leu	Ser	Gly	Val	Thr	Arg	Pro	Ser	Ser	Gly	Glu	Ile	Ile	Leu	Asn
305					310					315					320
Gly	Gln	Pro	Arg	Arg	Phe	Arg	Gln	Pro	Ala	Asp	Ala	Ile	Lys	Ala	Gly
				325					330					335	
Ile	Val	Cys	Val	Pro	Glu	Glu	Arg	Gln	Lys	Gln	Gly	Ala	Ile	Ile	Ala
			340					345					350		
Leu	Pro	Ile	Ala	Gln	Asn	Ile	Ser	Leu	Pro	Gln	Leu	Ser	Thr	Leu	Asn
		355					360					365			
Pro	Asn	Gly	Val	Leu	His	Asp	Asp	Arg	Glu	Trp	Lys	Leu	Ala	Asn	Glu
		370				375						380			
Tyr	Ala	Lys	Arg	Leu	Gln	Val	Lys	Ala	Phe	Ser	Trp	Lys	Gln	Ala	Val
385					390					395					400
Glu	Thr	Leu	Ser	Gly	Gly	Asn	Gln	Gln	Lys	Val	Val	Ile	Gly	Lys	Trp
				405					410					415	
Leu	Ala	Thr	His	Pro	Asp	Val	Ile	Ile	Leu	Asp	Glu	Pro	Thr	Lys	Gly
			420					425					430		
Ile	Asp	Ile	Gly	Ser	Lys	Ala	Ala	Val	His	Gln	Phe	Met	Ser	Glu	Leu
		435					440					445			
Val	Ser	Gln	Gly	Leu	Ala	Val	Ile	Met	Val	Ser	Ser	Glu	Leu	Pro	Glu
		450				455					460				
Val	Met	Gly	Met	Ala	Asp	Arg	Ile	Ile	Val	Met	His	Glu	Gly	Leu	Met
465					470					475					480
Val	Ala	Glu	Tyr	Gln	Ala	Gly	Asp	Ala	Thr	Ala	Glu	Thr	Ile	Val	Ser

Ala Ala Ser Gly Ala Lys Gln Glu Ala Ala
 500 485 490 495
 505

<210> 10014

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 10014

Met Leu Ser Ser Leu Leu Lys His Arg Glu Ala Leu Leu Gly Ala Val
 1 5 10 15
 Ile Ile Leu Met Ile Val Ala Ile Gly Ser Arg Val Pro Ser Phe Ile
 20 25 30
 Ala Pro Gly Asn Leu Val Glu Met Phe Asn Asp Thr Ala Ile Leu Ile
 35 40 45
 Val Leu Ala Leu Gly Gln Met Met Val Leu Leu Thr Lys Gly Ile Asp
 50 55 60
 Leu Ser Met Ala Ala Asn Leu Ala Leu Thr Gly Met Ile Val Ala Leu
 65 70 75 80
 Ile Asn Phe His Tyr Pro Asp Val Pro Val Trp Ala Leu Leu Ile Leu
 85 90 95
 Ala Ser Ala Leu Gly Leu Leu Met Gly Ala Ile Asn Gly Leu Leu Val
 100 105 110
 Trp Lys Leu Gly Ile Pro Ala Ile Val Val Thr Leu Gly Thr Met Ser
 115 120 125
 Ile Tyr Arg Gly Met Ile Phe Leu Leu Ser Gly Gly Trp Val Asn
 130 135 140
 Ser Asn Gln Met Gly Ala Asp Phe Leu Gly Leu Pro Arg Ala Ser Val
 145 150 155 160
 Leu Gly Leu Pro Val Leu Ser Trp Cys Ala Ile Ala Val Leu Leu Leu
 165 170 175
 Val Gly Tyr Phe Leu Arg Tyr Ser Arg Thr Gly Arg Ala Leu Tyr Thr
 180 185 190
 Ala Gly Gly Asn Ala Thr Ala Ala Tyr Tyr Thr Gly Ile Asn Ala Gly
 195 200 205
 Lys Met Gln Phe Ile Ser Phe Cys Leu Ser Gly Leu Leu Ala Gly Phe
 210 215 220
 Cys Gly Tyr Leu Trp Ile Ser Arg Phe Ala Val Ala Tyr Val Asp Val
 225 230 235 240
 Ala Asn Gly Phe Glu Leu Gln Val Val Ala Ala Cys Val Ile Gly Gly
 245 250 255
 Ile Ser Thr Met Gly Gly Thr Gly Arg Val Leu Gly Cys Leu Phe Gly
 260 265 270
 Ala Leu Phe Leu Gly Val Ile Asn Asn Ala Leu Pro Val Ile Gly Val
 275 280 285
 Ser Pro Phe Trp Gln Met Ala Ile Ser Gly Ser Val Ile Val Ile Ala
 290 295 300
 Val Leu Leu Asn Glu Arg Gly Asn Lys Arg Lys Gly Arg Leu Ile Leu
 305 310 315 320
 Arg Asp Ala Ala Leu Ala Arg Gln Lys Leu Ala Val Lys Pro
 325 330 335

<210> 10015

<211> 388

<212> PRT

<213> Enterobacter cloacae

<400> 10015

Leu Arg Arg Ile Ile Met Ser Phe Met Leu Ala Leu Pro Lys Ile Ser
 1 5 10 15

Leu His Gly Ala Gly Ala Ile Gly Asp Met Val Asn Leu Val Ala Asn
 20 25 30
 Lys Gln Trp Gly Lys Ala Leu Ile Val Thr Asp Gly Gln Leu Val Lys
 35 40 45
 Leu Gly Leu Leu Asp Ser Leu Phe Thr Ala Leu Asp Ala His Gln Met
 50 55 60
 Ser Tyr His Leu Phe Asp Glu Val Phe Pro Asn Pro Thr Glu Ala Leu
 65 70 75 80
 Val Gln Lys Gly Tyr Ala Ala Tyr Gln Asp Ala Glu Cys Asp Tyr Leu
 85 90 95
 Ile Ala Phe Gly Gly Gly Ser Pro Ile Asp Thr Ala Lys Ala Ile Lys
 100 105 110
 Ile Leu Thr Ala Asn Pro Gly Pro Ser Thr Asp Tyr Ser Gly Val Gly
 115 120 125
 Lys Val Lys Asn Ala Gly Val Pro Leu Val Ala Ile Asn Thr Thr Ala
 130 135 140
 Gly Thr Ala Ala Glu Met Thr Ser Asn Ala Val Ile Ile Asp Ala Ala
 145 150 155 160
 Arg Gln Val Lys Glu Val Ile Ile Asp Pro Asn Ile Ile Pro Asp Ile
 165 170 175
 Ala Val Asp Asp Ala Ser Val Met Leu Asp Ile Pro Ala Ser Val Thr
 180 185 190
 Ala Ala Thr Gly Met Asp Ala Leu Thr His Ala Ile Glu Ala Tyr Val
 195 200 205
 Ser Val Gly Ala His Pro Leu Thr Asp Ala Asn Ala Leu Glu Ala Ile
 210 215 220
 Arg Leu Ile Asn Leu Trp Leu Pro Lys Ala Val Asp Asp Gly His Asn
 225 230 235 240
 Leu Glu Ala Arg Glu Gln Met Ala Phe Gly Gln Tyr Leu Ala Gly Met
 245 250 255
 Ala Phe Asn Ser Ala Gly Leu Gly Leu Val His Ala Leu Ala His Gln
 260 265 270
 Pro Gly Ala Thr His Asn Leu Pro His Gly Val Cys Asn Ala Ile Leu
 275 280 285
 Leu Pro Ile Ile Glu Asn Phe Asn Arg Pro Asn Ala Val Ala Arg Phe
 290 295 300
 Ala Arg Val Ala Gln Ala Met Gly Val Asp Thr Arg Gly Met Ser Asp
 305 310 315 320
 Glu Ala Ala Ser Met Ser Ala Ile Gln Ala Ile Arg Asp Leu Ser Ala
 325 330 335
 Arg Val Gly Ile Pro Ser Gly Phe Ser Gln Leu Gly Val Thr Lys Ala
 340 345 350
 Asp Ile Glu Gly Trp Leu Asp Lys Ala Leu Ala Asp Pro Cys Ala Pro
 355 360 365
 Cys Asn Pro Arg Thr Ala Ser Arg Asp Glu Val Arg Glu Leu Tyr Leu
 370 375 380
 Glu Ala Leu
 385

<210> 10016

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 10016

Asn Gly Met Lys Asn His Leu Ser Cys Leu Lys Gly Asp Thr Ile Lys
 1 5 10 15
 Ala Ile Val Leu Val Cys Leu Ala Val Gly Val Val Gly Met Ser Tyr
 20 25 30
 Gly Ser Leu Ala Met Ala Tyr Gly Phe Pro Leu Trp Val Pro Phe Val
 35 40 45

Leu Ser Leu Thr Val Leu Ala Gly Ala Ser Glu Phe Met Phe Ile Gly
 50 55 60
 Ile Val Ala Ser Gly Gly Asn Pro Leu Ala Ala Ala Ala Gly Leu
 65 70 75 80
 Leu Val Asn Ala Arg His Val Pro Phe Gly Val Thr Val Arg Asp Leu
 85 90 95
 Val Gly Lys Arg Gly Leu Ser Phe Leu Gly Cys His Ile Met Asn Asp
 100 105 110
 Glu Ser Val Val Phe Gly Leu Ser Gln Lys Thr Ala Glu Gln Arg Lys
 115 120 125
 Ala Ala Tyr Trp Leu Cys Gly Leu Gly Val Ala Ile Ile Trp Pro Leu
 130 135 140
 Gly Ala Val Leu Gly Ala Met Val Gly Lys Leu Leu Pro Asp Pro Glu
 145 150 155 160
 Thr Ile Gly Leu Asp Ala Val Phe Pro Ala Ile Leu Leu Ala Leu Val
 165 170 175
 Val Pro Ala Phe Lys Asn Arg Thr Thr Leu Ile Arg Ala Cys Ser Gly
 180 185 190
 Ala Val Leu Ser Leu Ala Ala Val Pro Phe Ala Pro Val Gly Leu Pro
 195 200 205
 Val Leu Leu Ser Leu Leu Gly Leu Ala Ala Arg Lys Lys
 210 215 220

<210> 10017

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 10017

Arg Glu Arg Arg Gly Ala Gln Met Arg Lys Arg Asp Thr Ile Val Arg
 1 5 10 15
 Tyr Thr Ala Pro Glu Arg Ile Asn His Trp Val Thr Ala Phe Cys Phe
 20 25 30
 Met Leu Ala Ala Ile Ser Gly Leu Gly Phe Phe Phe Pro Ser Phe Asn
 35 40 45
 Trp Leu Met Gln Ile Met Gly Thr Pro Gln Leu Ala Arg Ile Leu His
 50 55 60
 Pro Phe Val Gly Val Ile Met Phe Ala Ser Phe Ile Ile Met Phe Phe
 65 70 75 80
 Arg Tyr Trp His His Asn Leu Ile Asn Arg Asp Asp Ile Phe Trp Ala
 85 90 95
 Lys Asn Ile Arg Lys Ile Val Val Asn Glu Glu Val Gly Asp Thr Gly
 100 105 110
 Arg Tyr Asn Phe Gly Gln Lys Cys Val Phe Trp Ala Ala Ile Ile Phe
 115 120 125
 Leu Val Leu Leu Leu Val Ser Gly Val Ile Ile Trp Arg Pro Tyr Phe
 130 135 140
 Ala Pro Ala Phe Ser Ile Pro Val Ile Arg Phe Ala Leu Met Leu His
 145 150 155 160
 Ser Phe Ala Ala Val Ala Leu Ile Val Val Ile Met Val His Ile Tyr
 165 170 175
 Ala Ala Leu Trp Val Lys Gly Thr Ile Thr Ala Met Val Glu Gly Trp
 180 185 190
 Val Thr Lys Thr Trp Ala Lys Lys His Pro Arg Trp Tyr Arg Glu
 195 200 205
 Val Arg Gln Lys Gln Glu Lys Ser Ser Glu
 210 215

<210> 10018

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 10018

```

Asp Arg Arg Arg Asn Asp Gly Ser Pro Leu Arg Lys Asp Pro Asn Met
1      5      10      15
Lys Trp Phe Asn Thr Leu Ser His Asn Arg Trp Leu Glu Gln Glu Thr
      20      25      30
Asp Arg Ile Leu Asp Phe Gly Lys Asn Ala Ala Val Pro Thr Gly Phe
      35      40      45
Gly Trp Leu Gly Asn Asn Gly Gln Val Arg Ser Asp Met Gly Thr His
      50      55      60
Leu Trp Ile Thr Ala Arg Met Leu His Val Tyr Ala Val Ala Ala Asn
65      70      75      80
Met Gly Arg Pro Gly Ala Tyr Ala Leu Val Glu His Gly Ile Asn Ala
      85      90      95
Leu Asn Gly Pro Leu Arg Asp Lys Gln His Gly Gly Trp Tyr Ala Cys
      100      105      110
Val Asn Asp Glu Gly Val Ile Asp Ala Ser Lys Gln Gly Tyr Gln His
      115      120      125
Phe Phe Val Leu Leu Gly Ala Ala Ser Ala Val Thr Thr Gly His Pro
      130      135      140
Gln Ala Arg Lys Leu Leu Asp Asp Ala Ile Glu Val Ile Glu Arg Tyr
145      150      155      160
Phe Trp Ser Glu Gln Glu Gln Met Cys Leu Glu Ser Trp Asp Glu Ala
      165      170      175
Phe Ser Lys Thr Glu Asp Tyr Arg Gly Gly Asn Ala Asn Met His Ala
      180      185      190
Val Glu Ala Phe Leu Ile Val Tyr Asp Val Thr His Asp Arg Lys Trp
      195      200      205
Leu Asp Arg Ala Leu Arg Ile Ala Ser Val Ile Ile His Asp Val Ala
210      215      220
Arg Lys Gly Glu Tyr Arg Val Asn Glu His Phe Asp Thr Asn Trp Asn
225      230      235      240
Pro Ile Arg Asp Tyr Asn Ile Asp Asn Pro Ala His Arg Phe Arg Ala
      245      250      255
Tyr Gly Gly Thr Pro Gly His Trp Ile Glu Trp Gly Arg Leu Met Leu
      260      265      270
His Leu Arg Ala Ala Leu Glu Ala Arg Phe Glu Thr Pro Pro Glu Trp
      275      280      285
Leu Leu Glu Asp Ala Lys Gly Leu Phe His Ala Thr Ile Arg Asp Ala
290      295      300
Trp Ala Pro Asp Gly Ala Asp Gly Phe Val Tyr Ser Val Gly Trp Asp
305      310      315      320
Gly Lys Pro Ile Val Arg Glu Arg Val Arg Trp Pro Ile Val Glu Ala
      325      330      335
Met Gly Thr Ala Tyr Ala Leu Tyr Thr Val Thr Gly Glu Ala Gln Tyr
      340      345      350
Glu Ala Trp Tyr Gln Lys Trp Trp Asp Tyr Cys Ile Lys Tyr Leu Met
      355      360      365
Asp Tyr Glu Asn Gly Ser Trp Trp Gln Glu Leu Asp Thr Asn Asn Glu
370      375      380
Val Thr Thr Lys Val Trp Asp Gly Lys Gln Asp Ile Tyr His Leu Leu
385      390      395      400
His Cys Leu Val Ile Pro Arg Leu Pro Leu Ala Pro Gly Leu Ala Pro
      405      410      415
Ala Val Ala Ala Gly Leu Leu Asp Ser Gln Ala Lys
420      425

```

<210> 10019

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 10019

Met Ala Thr Gly Thr Leu Pro Asp Ala Gly Gln Ile Leu Asn Ser Leu
 1 5 10 15
 Ile Asn Ser Ile Leu Leu Val Asp Asp Glu Leu Ala Val His Tyr Ala
 20 25 30
 Asn Pro Ala Ala Gln Gln Leu Leu Ala Gln Ser Ala Arg Lys Leu Phe
 35 40 45
 Gly Thr Pro Leu Pro Glu Leu Ser Tyr Phe Ser Leu Asn Ile Gly
 50 55 60
 Leu Met Gln Glu Ser Leu Gln Ala Gly Gln Gly Phe Thr Asp Asn Glu
 65 70 75 80
 Val Thr Leu Val Ile Asp Gly Arg Ser His Ile Leu Ser Leu Thr Ala
 85 90 95
 Gln Arg Leu Pro Asp Gly Met Ile Leu Leu Glu Met Ala Pro Met Asp
 100 105 110
 Asn Gln Arg Arg Leu Ser Gln Glu Gln Leu Gln His Ala Gln Gln Ile
 115 120 125
 Ala Ala Arg Asp Leu Val Arg Gly Leu Ala His Glu Ile Lys Asn Pro
 130 135 140
 Leu Gly Gly Leu Arg Gly Ala Ala Gln Leu Leu Thr Lys Ala Leu Pro
 145 150 155 160
 Asp Pro Ala Leu Ala Glu Tyr Thr Asn Val Ile Ile Glu Gln Ala Asp
 165 170 175
 Arg Leu Arg Asn Leu Val Asp Arg Leu Leu Gly Pro Gln Gln Pro Gly
 180 185 190
 Met His Val Ser Glu Ser Ile His Lys Val Ala Glu Arg Val Val Lys
 195 200 205
 Leu Val Ser Met Glu Leu Pro Asp Asn Val Thr Leu Val Arg Asp Tyr
 210 215 220
 Asp Pro Ser Leu Pro Glu Leu Ala His Asp Pro Asp Gln Ile Glu Gln
 225 230 235 240
 Val Leu Leu Asn Ile Val Arg Asn Ala Leu Gln Ala Leu Gly Pro Glu
 245 250 255
 Gly Gly Glu Ile Ile Leu Arg Thr Arg Thr Ala Phe Gln Leu Thr Leu
 260 265 270
 His Gly Val Arg Tyr Arg Leu Ala Ala Arg Ile Asp Val Glu Asp Asn
 275 280 285
 Gly Pro Gly Ile Pro Pro His Leu Gln Asp Thr Leu Phe Tyr Pro Met
 290 295 300
 Val Ser Gly Arg Glu Gly Gly Thr Gly Leu Gly Leu Ser Ile Ala Arg
 305 310 315 320
 Asn Leu Ile Asp Gln His Ser Gly Lys Ile Glu Phe Thr Ser Trp Pro
 325 330 335
 Gly His Thr Glu Phe Ser Val Phe Leu Pro Ile Lys Lys
 340 345 350

<210> 10020

<211> 495

<212> PRT

<213> Enterobacter cloacae

<400> 10020

Thr Thr Ala Val Val Ala Ala Thr Glu Val Ala Ala His Pro Asn Asp
 1 5 10 15
 Gly Pro Gln Arg Asp Gln Asn Gly Pro Pro Tyr Thr Asn Ala Thr Pro
 20 25 30
 Thr Glu Gly Val Ser Met Ser Val Pro Ser Ile Asp Trp Asp Leu Ala
 35 40 45
 Leu Ile Gln Lys Tyr Asn Tyr Ser Gly Pro Arg Tyr Thr Ser Tyr Pro

50	55	60
Thr Ala Leu Glu Phe	Ser Asp Ala Phe Gly Glu Ala Asp Phe Gln His	
65	70	75
Ala Val Ala Arg Tyr	Pro Glu Arg Pro Leu Ser Leu Tyr Val His Ile	80
	85	90
Pro Phe Cys His Lys	Leu Cys Tyr Phe Cys Gly Cys Asn Lys Ile Val	95
	100	105
Thr Arg Gln Gln His	Lys Ala Asp Gln Tyr Leu Asp Ala Leu Glu Gln	110
	115	120
Glu Ile Leu His Arg	Ala Pro Leu Phe Lys Gly Arg His Val Ser Gln	125
	130	135
Leu His Trp Gly Gly	Gly Thr Pro Thr Tyr Leu Asn Lys Ala Gln Ile	140
	145	150
Ser Arg Leu Met Ala	Leu Leu Arg Asp Asn Phe Ser Phe Asn Asp Asp	155
	160	165
Ala Glu Ile Ser Ile	Glu Val Asp Pro Arg Glu Ile Glu Leu Asp Val	170
	175	180
Leu Asp His Leu Arg	Ala Glu Gly Phe Asn Arg Leu Ser Met Gly Val	185
	190	195
Gln Asp Phe Asn Lys	Glu Val Gln Arg Leu Val Asn Arg Glu Gln Asp	200
	205	210
Glu Ala Phe Ile Phe	Ala Leu Leu Asn His Ala Arg Glu Ile Gly Phe	215
	220	225
Thr Ser Thr Asn Ile	Asp Leu Ile Tyr Gly Leu Pro Lys Gln Thr Pro	230
	235	240
Glu Ser Phe Ala Tyr	Thr Leu Lys Arg Val Ala Glu Leu Asn Pro Asp	245
	250	255
Arg Leu Ser Val Phe	Asn Tyr Ala His Leu Pro Thr Leu Phe Ala Ala	260
	265	270
Gln Arg Lys Ile Lys	Asp Ala Asp Leu Pro Ser Ala Gln Gln Lys Leu	275
	280	285
Asp Ile Leu Gln Glu	Thr Ile Ala Ser Leu Thr Glu Thr Gly Tyr Gln	290
	295	300
Phe Ile Gly Met Asp	His Phe Ala Arg Pro Asp Asp Glu Leu Ala Ile	305
	310	315
Ala Gln Arg Glu Gly	Val Leu His Arg Asn Phe Gln Gly Tyr Thr Thr	320
	325	330
Gln Gly Asp Thr Asp	Leu Leu Gly Met Gly Val Ser Ala Ile Ser Met	335
	340	345
Ile Gly Asp Cys Tyr	Ala Gln Asn Gln Lys Glu Leu Lys Leu Tyr Tyr	350
	355	360
Gln Gln Val Asp Glu	Thr Gly Asn Ala Leu Trp Arg Gly Ile Ala Leu	365
	370	375
Thr Arg Asp Asp Cys	Ile Arg Arg Asp Val Ile Lys Ala Leu Ile Cys	380
	385	390
Asn Phe Arg Leu Glu	Phe Arg Glu Val Glu Ser Gln Trp Asp Leu Gln	395
	400	405
Phe Ser Asp Tyr Phe	Ala Glu Asp Leu Lys Leu Leu Ala Pro Leu Ala	410
	415	420
Lys Asp Gly Leu Val	Asp Val Ser Glu Ser Ala Val Val Val Thr Pro	425
	430	435
Lys Gly Arg Leu Leu	Ile Arg Asn Ile Cys Met Cys Phe Asp Ala Tyr	440
	445	450
Leu Arg Gln Lys Ala	Arg Leu Gln Gln Phe Ser Arg Val Ile	455
	460	465
	470	475
	480	485
	490	495

<210> 10021

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 10021

Arg Phe Arg Gly Lys Lys Arg Val Arg Ser Gly Cys Trp Trp Arg Lys
 1 5 10 15
 Lys Pro Ile Arg Arg Trp Ala Lys Val Ser Thr Ala Thr Thr Pro Asp
 20 25 30
 Ala Tyr Ala Pro Gly Lys Thr Asn Gln Leu Asn Ala Val Val Gln Phe
 35 40 45
 Glu Leu Asn Arg Val Arg Arg His Ala Asn Ala Val Val Phe Phe Ser
 50 55 60
 Thr Gln Arg Asp Val Ser Val Asp Ser Phe Ile Gly Glu His Ala Ala
 65 70 75 80
 Ser Gly Gln Glu Leu Ala Val Cys Val Gln Arg Leu Gln Gly Phe Phe
 85 90 95
 Gln Arg Ala Gly Asn Leu Trp Asp Leu Phe Arg Phe Phe Trp Arg Gln
 100 105 110
 Val Val Gln Val Phe Val His Gly Phe Ala Arg Val Asp Leu Val Leu
 115 120 125
 Asp Thr Val Gln Thr Gly His Gln Gln Cys Cys Glu Ala Gln Val Trp
 130 135 140
 Val Ser Arg Arg Val Arg Glu Ala His Phe Asp Thr Thr Arg Phe Arg
 145 150 155 160
 Arg Arg Asn His Arg Asp Thr Asp Arg Ser Arg Thr Val Thr Gly Arg
 165 170 175
 Val Arg Gln His His Gly Cys Phe Val Ala Trp Asn Gln Thr Leu Val
 180 185 190
 Gly Val Arg Gly Arg Val Arg Gln Gly Val Asp Arg Phe Ser Val Phe
 195 200 205
 Asp Asn Thr Ala Asp Val Val Gln Arg Leu Leu Arg Gln Thr Arg Ile
 210 215 220
 Leu Val Thr Arg Glu Gln Val Gly Ala Val Leu Gly Gln Gly His Val
 225 230 235 240
 Ala Val His Ala Gly Thr Val Val Ala Lys His Trp Phe Trp His Glu
 245 250 255
 Gly Arg Gly Phe Thr Glu Thr Val Arg Asn Val Val Tyr Asn Val Phe
 260 265 270
 Val Asp Leu Asn Leu Ile Arg Phe Phe Gly His Gly Val Glu Ala Gly
 275 280 285
 Ser Asp Leu Val Leu Ala Ser Arg Cys His Phe Val Val Val Arg Phe
 290 295 300
 Asn Asn Gln Ala His Leu Phe His Asp Gln Thr His Gly Arg Thr Asp
 305 310 315 320
 Val Leu

<210> 10022

<211> 190

<212> PRT

<213> *Enterobacter cloacae*

<400> 10022

Arg Ile Asp Arg Arg Asn Arg Glu Val Thr Ala Phe His Ala Trp Thr
 1 5 10 15
 Val Thr Phe Val Thr Thr Phe Val Leu Gly Gly Arg Val Pro Cys Ala
 20 25 30
 Phe Asp Val Ile Asp Ser Asp Val Gly Ala Arg Asn Gly Ser Thr Lys
 35 40 45
 Thr Asp Val Val Glu Gln Glu Glu Leu Trp Leu Trp Pro Glu Gln Asn
 50 55 60
 Gly Val Cys Asp Ala Gly Arg Ala Gln Val Leu Phe Ser Ala Phe Cys
 65 70 75 80
 Asp Gly Ala Trp Val Thr Val Ile Ala Leu Gln Arg Ala Arg Phe Gln

```
<210> 10023
<211> 218
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10024      .
<211> 364
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 10024
Ala Leu Ser Pro Thr Gly His Glu Tyr Thr Asn Arg Thr Ile Arg Cys
1      5      10
Gly Tyr Ala Gly Phe Ala Gly Glu Arg Trp Pro Arg His Ile Leu Ala
20      25      30
Pro Gly Met Ser Gln Leu Ala Val Trp Pro Arg Val Thr Arg Glu Ser
35      40      45

```

Thr Ala Met Tyr His Leu Arg Val Pro Gln Thr Glu Glu Glu Leu Asp
 50 55 60
 Ala Tyr Tyr His Phe Arg Trp Glu Met Leu Arg Lys Pro Leu His Gln
 65 70 75 80
 Pro Lys Gly Ser Glu Arg Asp Ala Trp Asp Ala Met Ala His His Gln
 85 90 95
 Met Val Val Asp Glu Glu Gly Asn Leu Val Ala Val Gly Arg Leu Tyr
 100 105 110
 Ile Asn Ala Asp Asn Glu Ala Ser Ile Arg Phe Met Ala Val His Pro
 115 120 125
 Ser Val Gln Asp Lys Gly Leu Gly Thr Leu Met Ala Met Thr Leu Glu
 130 135 140
 Ser Val Ala Arg Gln Glu Gly Val Lys Arg Val Thr Cys Ser Ala Arg
 145 150 155 160
 Glu Asp Ala Val Glu Phe Phe Ala Lys Leu Gly Phe Val Asn Gln Gly
 165 170 175
 Glu Ile Thr Ala Pro Gln Thr Thr Pro Ile Arg His Phe Leu Met Ile
 180 185 190
 Lys Pro Ile Ala Thr Leu Asp Asp Ile Leu His Arg Ala Asp Trp Cys
 195 200 205
 Gly Gln Leu Gln Gln Ala Trp Tyr Gln His Ile Pro Leu Ser Glu Lys
 210 215 220
 Met Gly Val Arg Ile Gln Gln Tyr Thr Gly Gln Lys Phe Ile Thr Thr
 225 230 235 240
 Met Pro Glu Thr Gly Asn Gln Asn Pro His His Thr Leu Phe Ala Gly
 245 250 255
 Ser Leu Phe Ser Leu Ala Thr Leu Thr Gly Trp Gly Leu Ile Trp Leu
 260 265 270
 Met Leu Arg Glu Arg His Leu Gly Gly Thr Ile Ile Leu Ala Asp Ala
 275 280 285
 His Ile Arg Tyr Ser Ala Pro Ile Ser Gly Lys Pro Ser Ala Val Ala
 290 295 300
 Asp Leu Gly Ala Leu Gly Gly Asp Leu Asp Arg Leu Ala Arg Gly Arg
 305 310 315 320
 Lys Ala Arg Val Gln Met Gln Val Glu Leu Phe Gly Asp Glu Thr Pro
 325 330 335
 Gly Ala Val Phe Glu Gly Thr Tyr Ile Val Leu Pro Ala Lys Pro Tyr
 340 345 350
 Gly Ala Tyr Glu Glu Gly Gly Asn Glu Glu Glu
 355 360

<210> 10025

<211> 467

<212> PRT

<213> Enterobacter cloacae

<400> 10025

Met Ala Asp Ala Gly Gly Tyr Cys Ala Ala Asp Ser Gly Ser Gly Asn
 1 5 10 15
 His His Ser Asp Trp Cys Gly Thr Arg Val Arg Val Thr Gly Arg Ala
 20 25 30
 Thr Gly Pro Pro Leu Arg Ile Lys Ile Met Asn Thr Thr Thr Cys Thr
 35 40 45
 His Lys Asp Asn Pro Asn Phe Trp Val Phe Gly Leu Phe Phe Phe Leu
 50 55 60
 Tyr Phe Phe Ile Met Ala Thr Cys Phe Pro Phe Leu Pro Ile Trp Leu
 65 70 75 80
 Ser Asp Ile Ile Gly Leu Asn Lys Thr His Thr Gly Ile Val Phe Ser
 85 90 95
 Cys Ile Ser Leu Ser Ala Ile Ala Phe Gln Pro Val Leu Gly Val Ile
 100 105 110

Ser Asp Lys Leu Gly Leu Lys Lys His Leu Leu Trp Ile Ile Ser Val
 115 120 125
 Leu Leu Phe Leu Phe Ala Pro Phe Phe Leu Tyr Val Phe Ala Pro Leu
 130 135 140
 Leu Lys Thr Asn Ile Trp Leu Gly Ala Leu Ser Gly Gly Leu Tyr Ile
 145 150 155 160
 Gly Phe Val Phe Ser Ala Gly Ser Gly Ala Ile Glu Ala Tyr Ile Glu
 165 170 175
 Arg Val Ser Arg Asn Ser Phe Phe Glu Tyr Gly Lys Ala Arg Met Phe
 180 185 190
 Gly Cys Leu Gly Trp Gly Leu Cys Ala Ser Thr Gly Gly Ile Leu Phe
 195 200 205
 Gly Ile Asp Pro Ser Tyr Val Phe Trp Met Gly Ser Ala Ala Ala Leu
 210 215 220
 Leu Leu Met Leu Leu Leu Val Val Ala Lys Pro Lys Pro Asn Gln Thr
 225 230 235 240
 Ala Gln Val Met Asn Ala Leu Gly Ala Asn Gln Arg Gln Ile Thr Ala
 245 250 255
 Lys Thr Val Phe Asn Leu Phe Arg Gln Arg Arg Met Trp Met Phe Ile
 260 265 270
 Leu Tyr Val Ile Gly Val Ala Cys Val Tyr Asp Val Phe Asp Gln Gln
 275 280 285
 Phe Ala Thr Phe Phe Lys Thr Phe Phe Ala Thr Pro Gln Glu Gly Thr
 290 295 300
 Arg Ala Phe Gly Phe Ala Thr Thr Ala Gly Glu Ile Cys Asn Ala Ile
 305 310 315 320
 Ile Met Phe Cys Ser Pro Trp Ile Ile Asn Arg Ile Gly Ala Lys Asn
 325 330 335
 Thr Leu Leu Ile Ala Gly Val Ile Met Ala Thr Arg Ile Ile Gly Ser
 340 345 350
 Ser Phe Ala Thr Thr Ala Val Glu Val Ile Ala Leu Lys Met Leu His
 355 360 365
 Ala Leu Glu Val Pro Phe Leu Leu Val Gly Ala Phe Lys Tyr Ile Thr
 370 375 380
 Gly Val Phe Asp Thr Arg Leu Ser Ala Thr Ile Tyr Leu Ile Gly Phe
 385 390 395 400
 Gln Phe Ala Lys Gln Ser Ala Ala Ile Phe Leu Ser Ala Phe Ala Gly
 405 410 415
 Asn Met Tyr Asp Arg Val Gly Phe Gln Glu Thr Tyr Leu Ile Leu Gly
 420 425 430
 Cys Phe Val Leu Ala Ile Thr Val Val Ser Ala Phe Thr Leu Ser Gly
 435 440 445
 Arg Arg Glu Ile Ala Ala Thr Ala Gly Ala Ala Ala Leu Thr His Gln
 450 455 460
 Ser Arg
 465

<210> 10026

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 10026

Cys Pro Val Ile Arg Arg Arg Gly Cys Gly Val Ala Ala Gln Leu Ile
 1 5 10 15
 Leu Arg Lys Asp Asp Phe Phe Ala Ser Ala Ser Gln Ala Val Ala Val
 20 25 30
 Ala Asp Arg Tyr Pro Gln Asn Val Phe Ala Glu His Thr His Glu Phe
 35 40 45
 Cys Glu Leu Val Leu Val Trp Arg Gly Asn Gly Leu His Val Leu Asn
 50 55 60

Asp Arg Pro Tyr Arg Ile Thr Arg Gly Asp Leu Phe Tyr Ile Arg Ala
 65 70 75 80
 Glu Asp Lys His Ser Tyr Ala Ser Val Asn Asp Leu Val Leu Gln Asn
 85 90 95
 Val Ile Tyr Cys Pro Asp Arg Leu Lys Leu Asn Val Asp Trp Ala Gly
 100 105 110
 Asn Ile Pro Gly Phe His Asn Ala Arg Gly Glu Pro His Trp Arg Leu
 115 120 125
 Ser Ser Asn Gly Met Ala Gln Val Arg Gln Thr Ile Ser Gln Leu Glu
 130 135 140
 Gln Glu Ser Gln Lys Ser Asp Pro Ala Ala Asn Gln Met Ser Glu Leu
 145 150 155 160
 Leu Phe Ala Gln Leu Val Met Thr Leu Lys Arg His Arg Tyr Ala Thr
 165 170 175
 Asp Asn Pro Ser Ala Thr Met Gln Glu Ala Leu Leu Asp Lys Leu Ile
 180 185 190
 Thr Arg Leu Ala Gly Ser Leu Asn Lys Ser Phe Val Leu Asp Lys Phe
 195 200 205
 Cys Glu Gln Glu Gln Cys Ser Glu Arg Ala Leu Arg Gln Gln Phe Arg
 210 215 220
 Thr Gln Thr Gly Met Thr Val Asn His Tyr Leu Arg Gln Leu Arg Ile
 225 230 235 240
 Cys His Ala Gln Tyr Leu Leu Gln His Thr Glu Leu Met Val Ser Glu
 245 250 255
 Val Ala Met Arg Cys Gly Phe Glu Asp Ser Asn Tyr Phe Ser Val Val
 260 265 270
 Phe Asn Arg Glu Val Gly Met Thr Pro Val Gln Trp Arg His Arg Ser
 275 280 285
 Arg Lys Ala Ala
 290

<210> 10027

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 10027

Gln Leu Cys Arg Pro Thr Ile Met Glu Arg Ile Met Ser Tyr Thr Leu
 1 5 10 15
 Pro Ser Leu Pro Tyr Ala Tyr Asp Ala Leu Glu Pro His Phe Asp Lys
 20 25 30
 Gln Thr Met Glu Ile His His Thr Lys His His Gln Thr Tyr Val Asn
 35 40 45
 Asn Ala Asn Ala Ala Leu Glu Ser Leu Pro Glu Phe Ala Asn Leu Pro
 50 55 60
 Val Glu Glu Leu Ile Thr Lys Leu Asp Gln Leu Pro Ala Asp Lys Lys
 65 70 75 80
 Thr Val Leu Arg Asn Asn Ala Gly Gly His Ala Asn His Ser Leu Phe
 85 90 95
 Trp Lys Gly Leu Lys Thr Gly Thr Thr Leu Gln Gly Asp Leu Lys Ala
 100 105 110
 Ala Ile Glu Arg Asp Phe Gly Ser Val Asp Asn Phe Lys Ala Glu Phe
 115 120 125
 Glu Lys Ala Ala Thr Arg Phe Gly Ser Gly Trp Ala Trp Leu Val
 130 135 140
 Leu Lys Gly Asp Lys Leu Ala Val Val Ser Thr Ala Asn Gln Asp Ser
 145 150 155 160
 Pro Leu Met Gly Glu Ala Ile Ser Gly Ala Ser Gly Phe Pro Ile Leu
 165 170 175
 Gly Leu Asp Val Trp Glu His Ala Tyr Tyr Leu Lys Phe Gln Asn Arg
 180 185 190

Arg Pro Asp Tyr Ile Lys Ala Phe Trp Asp Val Val Asn Trp Asp Glu
 195 200 205
 Ala Ala Ala Arg Phe Ala Ala Lys Lys
 210 215

<210> 10028

<211> 235

<212> PRT

<213> Enterobacter cloacae

<400> 10028

Leu Ala Phe Phe Val Ser Glu Gly Val Glu Met His Tyr Pro Val Asn
 1 5 10 15
 Val Phe Thr Gly Lys Val Arg Glu Tyr Glu Gly Ser Arg Pro Ser Ala
 20 25 30
 Ile Ala Lys Val Gln Val Asp Gly Glu Leu Thr Leu Thr Asp Leu Gly
 35 40 45
 Leu Ala Gly Asp Gln Gln Ala Glu Lys Lys Ile His Gly Gly Pro Asp
 50 55 60
 Arg Ala Leu Cys His Tyr Pro Arg Glu His Tyr Gln His Trp Lys Thr
 65 70 75 80
 Glu Phe Pro Glu Gln Ala Asp Leu Phe Val Ala Pro Ala Phe Gly Glu
 85 90 95
 Asn Leu Ser Thr Glu Gly Leu Thr Glu Lys Asn Val Phe Ile Gly Asp
 100 105 110
 Ile Tyr Arg Trp Gly Asp Ala Leu Ile Gln Val Thr Gln Pro Arg Ser
 115 120 125
 Pro Cys Phe Lys Leu Asn Tyr His Phe Gly Ile Gln Asp Met Ser Ala
 130 135 140
 Gln Leu Gln Asn Ala Gly Lys Thr Gly Trp Leu Tyr Arg Val Val Gln
 145 150 155 160
 Ala Gly Gln Val Ser Ala Asp Ala Pro Leu Glu Leu Ala Ser Arg Leu
 165 170 175
 Ser Glu Val Ser Val Tyr Glu Ala Cys Ala Ile Ala Trp His Met Pro
 180 185 190
 Phe Asp Asp Asp Gln Tyr His Arg Leu Leu Ser Ala Ala Gly Leu Ser
 195 200 205
 Thr Ser Trp Thr Arg Thr Met Gln Lys Arg Arg Ile Ser Gly Lys Ile
 210 215 220
 Glu Ser Ser Ser Arg Arg Leu Trp Gly Lys
 225 230 235

<210> 10029

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 10029

Leu Tyr Val Val Leu His Pro Leu Thr His Val Cys Ser Leu Asn Arg
 1 5 10 15
 Arg Leu Ser Leu Val Glu Ser Arg His Glu Arg Phe Trp Glu Gln Val
 20 25 30
 Met Arg Lys Val Thr Ala Ala Val Met Ala Ser Thr Leu Ala Phe Ser
 35 40 45
 Ala Phe Ser Gln Ala Ala Val Ala Ile Ile Ser Asp Asn Gly Ser Ser
 50 55 60
 Ala Glu Gly Ala Thr Gln His Ser Ser Gln Ser His Met Phe Asp Gly
 65 70 75 80
 Ile Ser Leu Thr Glu His Gln Arg Gln Gln Met Arg Asp Leu Met Gln
 85 90 95
 Arg Ala Arg His Asp Gln Pro Pro Val Asn Val Ser Glu Met Glu Thr

			100					105				110			
Met	His	Arg	Leu	Val	Thr	Ala	Glu	Asn	Phe	Asp	Glu	Ser	Ala	Val	Arg
		115					120					125			
Ala	Gln	Ala	Glu	Asn	Leu	Ala	Gln	Glu	Gln	Val	Ala	Arg	Gln	Val	Lys
		130				135					140				
Met	Ala	Lys	Val	Arg	Asn	Gln	Met	Phe	His	Leu	Thr	Pro	Glu	Gln	
145					150					155				160	
Gln	Ala	Val	Leu	Asn	Thr	Lys	His	Gln	Gln	Arg	Met	Asn	Gln	Leu	Arg
			165					170					175		
Glu	Val	Ala	Arg	Met	Gln	Arg	Ser	Ser	Asp	Met	Thr	Leu	Phe	Ser	Ser
		180						185					190		
Asn	Ser	Ser	Thr	Arg	Ser	Asn	Gln								
		195					200								

<210> 10030

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 10030

Arg	His	Gly	Met	Thr	Gly	Val	Phe	Met	Asn	Gln	Ser	Tyr	Gly	Arg	Leu
1				5				10					15		
Val	Ser	Arg	Ala	Ala	Ile	Ala	Ala	Thr	Val	Met	Ala	Ser	Cys	Leu	Leu
			20					25					30		
Ile	Ile	Lys	Ile	Phe	Ala	Trp	Trp	Tyr	Thr	Gly	Ser	Val	Ser	Ile	Leu
		35					40					45			
Ala	Ala	Leu	Val	Asp	Ser	Leu	Val	Asp	Ile	Ala	Ala	Ser	Leu	Thr	Asn
		50				55					60				
Leu	Leu	Val	Val	Arg	Tyr	Ser	Leu	Gln	Pro	Ala	Asp	Glu	Glu	His	Thr
65				70					75					80	
Phe	Gly	His	Gly	Lys	Ala	Glu	Ser	Leu	Ala	Ala	Leu	Ala	Gln	Ser	Met
			85					90					95		
Phe	Ile	Ser	Gly	Ser	Ala	Leu	Phe	Leu	Phe	Leu	Thr	Gly	Ile	Gln	His
			100					105					110		
Leu	Val	Ser	Pro	Ser	Pro	Met	Asn	Asp	Pro	Gly	Val	Gly	Val	Val	Val
		115					120					125			
Thr	Val	Val	Ala	Leu	Ile	Ser	Thr	Leu	Val	Leu	Val	Thr	Phe	Gln	Arg
		130				135						140			
Trp	Val	Val	Arg	Lys	Thr	Gln	Ser	Gln	Ala	Val	Arg	Ala	Asp	Met	Leu
145				150						155					160
His	Tyr	Gln	Ser	Asp	Val	Met	Met	Asn	Gly	Ala	Ile	Leu	Ile	Ala	Leu
			165					170					175		
Gly	Leu	Ala	Trp	Tyr	Gly	Trp	His	Arg	Ala	Asp	Ala	Leu	Phe	Ala	Leu
		180						185					190		
Gly	Ile	Gly	Ile	Tyr	Ile	Leu	Tyr	Ser	Ala	Leu	Arg	Met	Gly	Tyr	Asp
		195					200					205			
Ala	Val	Gln	Ser	Leu	Leu	Asp	Arg	Ala	Leu	Pro	Asp	Ala	Glu	Arg	Asp
		210				215					220				
Glu	Ile	Tyr	Ala	Ile	Val	Thr	Asn	Trp	Pro	Gly	Val	Ser	Gly	Ala	His
225				230						235					240
Asp	Leu	Arg	Thr	Arg	Gln	Ser	Gly	Pro	Thr	Arg	Phe	Ile	Gln	Ile	His
			245					250					255		
Leu	Glu	Met	Glu	Asp	Asn	Leu	Pro	Leu	Val	Gln	Ala	His	Met	Val	Ala
		260						265				270			
Glu	Gln	Val	Glu	Gln	Ala	Ile	Leu	Gln	Arg	Phe	Pro	Gly	Ser	Asp	Val
		275					280					285			
Ile	Ile	His	Gln	Asp	Pro	Cys	Ser	Val	Val	Pro	Arg	Ala	Phe		
		290				295					300				

<210> 10031

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10031

Lys Thr Val Thr Lys Gln His Lys Pro Lys Ser Glu Lys Pro Met Leu
 1 5 10 15
 Ser Pro Gln Ala Glu Leu Asp Leu Leu Glu Asn Asp Glu Arg Leu Asp
 20 25 30
 Ala Leu Leu Glu Arg Leu Glu Glu Gly Glu Thr Leu Thr Ala Glu Glu
 35 40 45
 Gln Ser Trp Val Asp Ala Lys Leu Asp Arg Ile Asp Glu Leu Met Gln
 50 55 60
 Lys Leu Gly Leu Ser Tyr Asp Asp Glu Asp Asp Glu Glu Glu Asp Glu
 65 70 75 80
 Lys Gln Glu Asp Met Met Arg Leu Leu Lys Gly Gly Asn
 85 90

<210> 10032

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 10032

Thr Phe Gly Glu Ile Lys Met Lys Ala Ser Glu Ile Ala Glu Gly Ile
 1 5 10 15
 Thr Met Thr Arg Ile Val Cys Val Gly Ile Thr Val Leu Asp Arg Ile
 20 25 30
 Trp Tyr Leu Asp Asp Leu Pro Lys Glu Gly Gly Lys Tyr Val Ala Lys
 35 40 45
 Asp Tyr Thr Glu Val Gly Gly Gly Pro Ala Ala Thr Ala Ala Val Ala
 50 55 60
 Ala Ala Lys Leu Gly Ala Glu Val Asp Phe Ile Gly Arg Val Gly Asp
 65 70 75 80
 Asp Asp Thr Gly Arg Arg Leu Leu Ala Glu Leu Glu Ser Leu Gly Val
 85 90 95
 Asn Thr Arg Tyr Thr Arg Val Val Lys Gly Ala Arg Ser Ser Gln Ser
 100 105 110
 Ala Val Leu Val Asp Gly Ser Gly Glu Arg Val Ile Ala Asn Tyr Ser
 115 120 125
 Ser Pro Asp Leu Pro Ala Val Ala Asp Trp Leu Gln Glu Ile Asp Phe
 130 135 140
 Ser Gln Trp Asp Ile Val Leu Ala Asp Val Arg Trp His Asp Gly Ala
 145 150 155 160
 Lys Gln Ala Phe Thr Leu Ala Arg Gln Gln Gly Val Pro Thr Leu Leu
 165 170 175
 Asp Ala Asp Val Thr Pro Gln Asp Ile Ala Glu Leu Ile Ala Leu Ser
 180 185 190
 Asp His Ala Ala Phe Ser Ala Pro Gly Leu Arg Arg Leu Thr Gln Arg
 195 200 205
 Asp Asp Thr Glu Asp Ala Leu Lys Lys Ala Gln Thr Leu Thr Asn Gly
 210 215 220
 His Val Tyr Val Thr Gln Gly Arg Asp Gly Cys Phe Trp Leu Glu Asn
 225 230 235 240
 Gly Ala Leu Cys His Gln Pro Gly Phe Glu Val Asn Val Val Asp Thr
 245 250 255
 Thr Gly Ala Gly Asp Val Phe His Gly Ala Leu Ala Val Ser Leu Gly
 260 265 270
 Gln Lys Leu Pro Ala Ala Asp Ala Val Arg Phe Ala Ser Ala Val Ala
 275 280 285
 Ala Leu Lys Cys Thr Lys Pro Gly Gly Arg Ala Gly Ile Pro Asp Cys
 290 295 300

Asp Gln Thr Arg Ser Phe Leu Ser Leu Phe Val
305 310 315

<210> 10033

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 10033

Lys Thr Thr Arg Ser Arg Pro Thr Met Ile Ala Leu Ile Gln Arg Val
1 5 10 15
Thr Arg Ala Ser Val Thr Val Ala Asp Glu Val Thr Gly Glu Ile Gly
20 25 30
Pro Gly Leu Leu Val Leu Leu Gly Val Glu Lys Asp Asp Glu Gln
35 40 45
Lys Ala Asn Arg Leu Cys Glu Arg Val Leu Gly Tyr Arg Ile Phe Ser
50 55 60
Asp Ala Glu Gly Lys Met Asn Leu Asn Val Gln Gln Ala Gly Gly Ser
65 70 75 80
Val Leu Val Val Ser Gln Phe Thr Leu Ala Ala Asp Thr Glu Arg Gly
85 90 95
Met Arg Pro Ser Phe Ser Lys Gly Ala Ala Pro Glu Arg Ala Glu Ala
100 105 110
Leu Tyr Glu Tyr Phe Val Glu Arg Cys Arg Gln Gln Asp Met Asn Thr
115 120 125
Gln Thr Gly Arg Phe Ala Ala Asp Met Gln Val Ser Leu Val Asn Asp
130 135 140
Gly Pro Val Thr Phe Trp Leu Gln Val
145 150

<210> 10034

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 10034

Gly Ala Gly Ala Arg Tyr Ala Arg Ala Ala Gly Gly Gly Thr Lys Leu
1 5 10 15
Lys Lys Ile Arg Lys Ile Met Ser Leu Lys Ala Ile Ala Lys Glu Leu
20 25 30
Gly Leu Ser Val Thr Thr Val Ser Arg Ala Leu Asn Gly Tyr Asp Asp
35 40 45
Val Ser Ala Glu Thr Arg Ala Arg Val Glu Ala Glu Ala Gln Arg Arg
50 55 60
Gly Tyr Arg Pro Asn Thr Phe Ala Arg Arg Leu Lys Met Gly Lys Ile
65 70 75 80
Asp Ala Val Gly Leu Val Phe Pro Val His Pro Val Pro Leu Asn Asn
85 90 95
Ser Val Phe Met Asp Met Val Gly Glu Ile Ser His Glu Leu Ala Arg
100 105 110
His Glu Ile Asp Leu Leu Leu Ile Ala Asp Asp Asp Leu Ala Asp Lys
115 120 125
His Ser Tyr Met Arg Met Val Gln Ser Arg Arg Val Asp Ala Leu Ile
130 135 140
Val Ala His Thr Leu Asp His Asp Pro Arg Leu Glu Gln Leu Gln Ala
145 150 155 160
Ala Gly Phe Pro Phe Leu Ala Leu Gly Arg Ser Gln Leu Pro Gln Pro
165 170 175
Tyr Ala Trp Phe Asp Phe Asp Asn Tyr Ala Gly Thr Tyr Gln Ala Thr
180 185 190
Arg Trp Leu Ile Glu Lys Gly His Gln Arg Ile Ala Leu Leu Gly Glu

```

      195              200              205
Ser Asn Asn Gln Ala Phe Ile Thr Gln Arg Arg Gln Gly Tyr Leu Asp
  210              215              220
Ala Leu Arg Glu Ala Gly Leu Ser Ser Glu Trp Leu Arg Ala Met Pro
  225              230              235
Pro Ser Arg Arg Val Gly Tyr Ala Thr Thr Gln Glu Leu Ser Leu
      245              250              255
Pro Gln Pro Pro Thr Ala Ile Ile Thr Asp Cys Asn Thr His Gly Asp
      260              265              270
Gly Ala Ala Met Ala Leu Ala Gln Met Gly Arg Leu Thr Gly Glu Asn
      275              280              285
Ala Val Ser Leu Val Val Tyr Asp Gly Leu Pro Gln Asp Ser Ile Val
      290              295              300
Asp Ile Asp Val Ala Ala Val Ile Gln Ser Thr Arg Gln Gly Val Gly
  305              310              315
Lys Gln Ile Ala Asp Met Val Arg Gln Leu Ile Asn Gly Asp Asp Ile
      325              330              335
Asp Thr Leu Gln Val Leu Trp Gln Pro Glu Phe Ser Pro Gly Gln Thr
      340              345              350
Ala

```

<210> 10035

<211> 743

<212> PRT

<213> Enterobacter cloacae

<400> 10035

```

Ser His Glu Lys Phe Gln Thr Arg Ser Gln Ile Arg Asn Val Leu Val
  1              5              10              15
Cys Ile Arg Asn Val Ser Asp Gln Asn Ser Gly His Pro Asp Asp Arg
      20              25              30
Arg Cys Pro Met Gln Asp Ala Ile Phe Arg Leu Glu Ser Asn Thr Val
      35              40              45
Asp Val Val Leu Lys Thr His Pro Phe Ala Glu Ile Leu Tyr Trp Gly
      50              55              60
Pro His Leu Gln His Phe Ser Pro Gln Asp Val Leu Ser Ile Ala Arg
      65              70              75              80
Pro Val Ala Asn Gly Arg Leu Asp Val Asp Ser Pro Val Thr Leu Met
      85              90              95
Ala Glu Leu Gly His Gly Leu Phe Gly Ser Pro Gly Ile Glu Gly His
      100              105              110
Arg Gln Gly Leu Asp Gly Ser Pro Val Phe Lys Thr Thr Gln Val Gln
      115              120              125
Gln Ala Leu Asn Ala Leu Thr Ile Thr Ala Glu Asp Glu His Ala Gly
      130              135              140
Leu Arg Leu Thr Ser Glu Ile Thr Leu Asp Ala Ser Gly Val Leu Val
      145              150              155              160
Val Arg His Gly Leu Thr Asn Leu Lys Thr Leu Ala Trp Gln Val Asp
      165              170              175
Arg Phe Ala Val Thr Leu Pro Val Ala Glu Arg Ala Gln Glu Val Met
      180              185              190
Ala Phe His Gly Arg Trp Ile Arg Glu Phe Gln Pro His Arg Val Thr
      195              200              205
Leu Glu His Asp Ser Phe Val Ile Glu Asn Arg Arg Gly Lys Thr Ser
      210              215              220
His Glu His Phe Pro Ala Leu Ile Ser Gly Thr Pro Ser Phe Ser Glu
      225              230              235
Met His Gly His Val Trp Gly Val His Leu Gly Trp Ser Gly Asn His
      245              250              255
Arg Leu Arg Ala Glu Ala Lys Thr Asp Gly Arg Arg Tyr Met Gln Ala

```


<210> 10036
 <211> 365
 <212> PRT
 <213> Enterobacter cloacae

<400> 10036
 Ile Thr Thr Ile Trp Pro Asp Leu Asn Gln Phe Ser Trp Lys Gly Leu
 1 5 10 15
 Ile Tyr Tyr Leu Gln Tyr Ser Thr Val Glu Gln Phe Leu Pro Ala Ala
 20 25 30
 Asp Phe Asn Phe Ala Phe Leu Ser Ser Glu Val Val Met Ile Lys Lys
 35 40 45
 Ile Gly Val Leu Thr Ser Gly Gly Asp Ala Pro Gly Met Asn Ala Ala
 50 55 60
 Ile Arg Gly Val Val Arg Ala Ala Leu Thr Glu Gly Leu Glu Val Phe
 65 70 75 80
 Gly Ile Tyr Asp Gly Tyr Leu Gly Leu Tyr Glu Asp Arg Met Val Gln
 85 90 95
 Leu Asp Arg Tyr Ser Val Ser Asp Met Ile Asn Arg Gly Gly Thr Phe
 100 105 110
 Leu Gly Ser Ala Arg Phe Pro Glu Phe Arg Asp Glu His Ile Arg Glu
 115 120 125
 Val Ala Ile Glu Asn Met Lys Lys Arg Gly Leu Asp Ala Leu Val Val
 130 135 140
 Ile Gly Gly Asp Gly Ser Tyr Met Gly Ala Lys Arg Leu Thr Glu Met
 145 150 155 160
 Gly Phe Pro Cys Ile Gly Leu Pro Gly Thr Ile Asp Asn Asp Ile Lys
 165 170 175
 Gly Thr Asp Tyr Thr Ile Gly Tyr Phe Thr Ala Leu Gly Thr Val Val
 180 185 190
 Glu Ala Ile Asp Arg Leu Arg Asp Thr Ser Ser Ser His Gln Arg Ile
 195 200 205
 Ser Ile Val Glu Val Met Gly Arg Tyr Cys Gly Asp Leu Thr Leu Ala
 210 215 220
 Ala Ala Ile Ala Gly Gly Cys Glu Phe Val Val Val Pro Glu Val Glu
 225 230 235 240
 Phe Ser Arg Glu Asp Leu Val Ala Glu Ile Lys Ala Gly Ile Ala Lys
 245 250 255
 Gly Lys Lys His Ala Ile Val Ala Ile Thr Glu His Ile Cys Asp Val
 260 265 270
 Asp Glu Leu Ala Lys Tyr Ile Glu Thr Glu Thr Lys Arg Glu Thr Arg
 275 280 285
 Ala Thr Val Leu Gly His Ile Gln Arg Gly Gly Ser Pro Gly Pro Tyr
 290 295 300
 Asp Arg Ile Leu Ala Ser Arg Met Gly Ala Tyr Ala Ile Glu Leu Leu
 305 310 315 320
 Leu Gln Gly His Gly Gly Arg Cys Val Gly Ile Gln Asn Glu Lys Leu
 325 330 335
 Val His His Asp Ile Ile Asp Ala Ile Glu Asn Met Lys Arg Pro Phe
 340 345 350
 Lys Gly Asp Trp Leu Asp Cys Ala Lys Lys Leu Tyr
 355 360 365

<210> 10037
 <211> 350
 <212> PRT
 <213> Enterobacter cloacae

<400> 10037
 Ser Ser Val Ser Phe Leu Ala Arg Cys Ile His Gln Asn Thr Thr Gln

1 5 10 15
 Glu Ser Trp Ala Met Asn Lys Trp Gly Val Gly Leu Thr Leu Leu Leu
 20 25 30
 Ala Ser Thr Ser Val Leu Ala Lys Asp Ile Gln Leu Leu Asn Val Ser
 35 40 45
 Tyr Asp Pro Thr Arg Glu Leu Tyr Asp Gln Tyr Asn Lys Ala Phe Ala
 50 55 60
 Ala His Trp Lys Gln Glu Thr Gly Asp Asn Val Val Val Arg Gln Ser
 65 70 75 80
 His Gly Gly Ser Gly Lys Gln Ala Thr Ser Val Ile Asn Gly Ile Glu
 85 90 95
 Ala Asp Val Val Thr Leu Ala Leu Ala Tyr Asp Val Asp Ala Ile Ala
 100 105 110
 Glu Arg Gly Arg Ile Asp Lys Asn Trp Ile Lys Arg Leu Pro Asp Asn
 115 120 125
 Ser Ala Pro Tyr Thr Ser Thr Ile Val Phe Leu Val Arg Lys Gly Asn
 130 135 140
 Pro Lys Gln Ile Lys Asp Trp Asn Asp Leu Ile Lys Pro Gly Val Ser
 145 150 155 160
 Val Ile Thr Pro Asn Pro Lys Ser Ser Gly Gly Ala Arg Trp Asn Tyr
 165 170 175
 Leu Ala Ala Trp Gly Tyr Ala Leu His His Asn Asn Gly Asp Gln Ala
 180 185 190
 Lys Ala Gln Asp Phe Val Lys Ala Leu Phe Lys Asn Val Glu Val Leu
 195 200 205
 Asp Ser Gly Ala Arg Gly Ala Thr Asn Thr Phe Val Glu Arg Gly Ile
 210 215 220
 Gly Asp Val Leu Ile Ala Trp Glu Asn Glu Ala Leu Leu Ala Thr Asn
 225 230 235 240
 Glu Leu Gly Lys Asp Lys Phe Glu Ile Val Thr Pro Ser Glu Ser Ile
 245 250 255
 Leu Ala Glu Pro Thr Val Ser Val Val Asp Lys Val Val Asp Lys Lys
 260 265 270
 Gly Thr Lys Ala Val Ala Glu Ala Tyr Leu Lys Tyr Leu Tyr Ser Pro
 275 280 285
 Glu Gly Gln Glu Ile Ala Ala Lys Asn Phe Tyr Arg Pro Arg Asp Glu
 290 295 300
 Ala Val Ala Lys Lys Tyr Glu Asn Ala Phe Pro Lys Leu Lys Leu Phe
 305 310 315 320
 Thr Ile Asp Asp Val Phe Gly Gly Trp Thr Lys Ala Gln Lys Glu His
 325 330 335
 Phe Ser Asn Gly Gly Thr Phe Asp Gln Ile Ser Lys Arg
 340 345 350

<210> 10038

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 10038

Glu Ile Arg Arg Val Phe Tyr Leu Val Ile Ile Leu Arg Tyr Ser Phe
 1 5 10 15
 Ala Ser Ile Glu Asn Arg Glu Arg Val Val Lys Lys Ile Ile Leu Leu
 20 25 30
 Ile Leu Ile Val Ile Ala Leu Ala Ala Gly Gly Val Tyr Trp Met Lys
 35 40 45
 Ala Gly Asn Pro Asn Ala Leu Arg His Ile Val Leu Asp Gln Cys Val
 50 55 60
 Pro Asn Gln Leu His Asn Arg Asn Pro Ala Pro Cys Ala Gln Val Lys
 65 70 75 80
 Pro Asp Ala Gly Tyr Val Val Phe Lys Asp Arg Asn Gly Pro Leu Gln

```
<210> 10039
<211> 611
<212> PRT
<213> Enterobacter cloacae
```

<400>	10039																
Gly	Lys	Val	Val	Ile	Glu	Lys	Leu	Arg	Asn	Ile	Ala	Ile	Ile	Ala	His		
1				5					10					15			
Val	Asp	His	Gly	Lys	Thr	Thr	Leu	Val	Asp	Lys	Leu	Leu	Gln	Gln	Ser		
			20					25					30				
Gly	Thr	Phe	Asp	Ala	Arg	Ala	Glu	Thr	Gln	Glu	Arg	Val	Met	Asp	Ser		
		35					40					45					
Asn	Asp	Leu	Glu	Lys	Glu	Arg	Gly	Ile	Thr	Ile	Leu	Ala	Lys	Asn	Thr		
	50					55					60						
Ala	Ile	Lys	Trp	Asn	Asp	Tyr	Arg	Ile	Asn	Ile	Val	Asp	Thr	Pro	Gly		
65				70						75					80		
His	Ala	Asp	Phe	Gly	Glu	Val	Glu	Arg	Val	Met	Ser	Met	Val	Asp			
			85						90					95			
Ser	Val	Leu	Leu	Val	Val	Asp	Ala	Phe	Asp	Gly	Pro	Met	Pro	Gln	Thr		
			100					105					110				
Arg	Phe	Val	Thr	Lys	Lys	Ala	Phe	Ala	His	Gly	Leu	Lys	Pro	Ile	Val		
		115					120					125					
Val	Ile	Asn	Lys	Val	Asp	Arg	Pro	Gly	Ala	Arg	Pro	Asp	Trp	Val	Val		
	130					135					140						
Asp	Gln	Val	Phe	Asp	Leu	Phe	Val	Asn	Leu	Asp	Ala	Thr	Asp	Glu	Gln		
145				150						155				160			
Leu	Asp	Phe	Pro	Ile	Val	Tyr	Ala	Ser	Ala	Leu	Asn	Gly	Ile	Ala	Gly		
			165						170					175			
Leu	Asp	His	Glu	Asp	Met	Ala	Glu	Asp	Met	Thr	Pro	Leu	Tyr	Gln	Thr		
			180					185					190				
Ile	Val	Asp	Arg	Val	Pro	Ala	Pro	Asn	Val	Asp	Leu	Glu	Gly	Thr	Leu		
	195						200					205					
Gln	Met	Gln	Ile	Ser	Gln	Leu	Asp	Tyr	Asn	Asn	Tyr	Val	Gly	Val	Ile		
	210					215					220						
Gly	Ile	Gly	Arg	Ile	Lys	Arg	Gly	Lys	Val	Lys	Pro	Asn	Gln	Gln	Val		

225 230 235 240
 Thr Ile Ile Asp Ser Glu Gly Lys Thr Arg Asn Gly Lys Val Gly Lys
 245 250 255
 Val Leu Thr His Leu Gly Leu Glu Arg Ile Glu Ser Asp Ile Ala Glu
 260 265 270
 Ala Gly Asp Ile Ile Ala Ile Thr Gly Leu Gly Glu Leu Asn Ile Ser
 275 280 285
 Asp Thr Ile Cys Asp Pro Gln Asn Val Glu Ala Leu Pro Ala Leu Ser
 290 295 300
 Val Asp Glu Pro Thr Val Ser Met Phe Phe Asn Val Asn Thr Ser Pro
 305 310 315 320
 Phe Cys Gly Lys Glu Gly Lys Phe Val Thr Ser Arg Gln Ile Leu Asp
 325 330 335
 Arg Leu Asn Lys Glu Leu Val His Asn Val Ala Leu Arg Val Glu Glu
 340 345 350
 Thr Glu Asp Ala Asp Ala Phe Arg Val Ser Gly Arg Gly Glu Leu His
 355 360 365
 Leu Ser Val Leu Ile Glu Asn Met Arg Arg Glu Gly Phe Glu Met Ala
 370 375 380
 Val Ser Arg Pro Lys Val Ile Phe Arg Glu Ile Asp Gly Arg Lys Gln
 385 390 395 400
 Glu Pro Phe Glu Asn Val Thr Leu Asp Val Glu Glu Gln His Gln Gly
 405 410 415
 Ser Val Met Gln Ala Leu Gly Glu Arg Lys Gly Asp Leu Lys Asn Met
 420 425 430
 Asn Pro Asp Gly Lys Gly Arg Val Arg Leu Asp Tyr Val Ile Pro Ser
 435 440 445
 Arg Gly Leu Ile Gly Phe Arg Ser Glu Phe Met Thr Met Thr Ser Gly
 450 455 460
 Thr Gly Leu Leu Tyr Ser Thr Phe Ser His Tyr Asp Asp Val Arg Pro
 465 470 475 480
 Gly Glu Val Gly Gln Arg Asn Asn Gly Val Leu Ile Ser Asn Gly Gln
 485 490 495
 Gly Lys Ala Val Ala Phe Ala Leu Phe Gly Leu Gln Asp Arg Gly Lys
 500 505 510
 Leu Phe Leu Gly His Gly Ala Glu Val Tyr Glu Gly Gln Ile Ile Gly
 515 520 525
 Ile His Ser Arg Ser Asn Asp Leu Thr Val Asn Cys Leu Thr Gly Lys
 530 535 540
 Lys Leu Thr Asn Met Arg Ala Ser Gly Thr Asp Glu Ala Thr Val Leu
 545 550 555 560
 Val Pro Pro Ile Lys Met Thr Leu Glu Gln Ala Leu Glu Phe Ile Asp
 565 570 575
 Asp Asp Glu Leu Val Glu Val Thr Pro Gln Ser Ile Arg Ile Arg Lys
 580 585 590
 Arg His Leu Thr Glu Asn Asp Arg Lys Arg Ala Met Arg Gly Ala Lys
 595 600 605
 Glu Asp
 610

<210> 10040

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 10040

Asn Ala Gln Ser Pro Ala Gly Ala Arg Val Tyr Pro Thr Val Ile Lys
 1 5 10 15
 Pro Ala Leu Phe Cys His Phe Leu Tyr Lys Met Arg Gly Val Met Val
 20 25 30
 Phe Arg Gly Gln Pro Met Ser Leu Thr Glu Leu Thr Gly Asn Pro Arg

```
<210> 10041
<211> 317
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

				165					170					175			
Ala	Gly	Ala	Ser	Leu	Ala	Ile	Ser	Ser	Tyr	Leu	Leu	Ser	Leu	Arg	Trp		
			180					185					190				
Ala	Thr	Asp	Leu	Asn	Ser	Val	Ile	Asp	Asn	Val	Leu	Arg	Ile	Phe	Pro		
		195					200					205					
Leu	Ile	Leu	Ser	Trp	Leu	Ser	Phe	Trp	Leu	Leu	Tyr	Ser	Val	Val	Pro		
	210					215						220					
Thr	Thr	Arg	Val	Pro	Asn	Arg	Asp	Ala	Val	Val	Gly	Ala	Leu	Val	Ala		
225					230					235					240		
Ala	Leu	Leu	Phe	Glu	Leu	Gly	Lys	Lys	Gly	Phe	Ala	Leu	Tyr	Ile	Thr		
			245						250					255			
Met	Phe	Pro	Ser	Tyr	Gln	Leu	Ile	Tyr	Gly	Val	Leu	Ala	Val	Ile	Pro		
		260						265					270				
Ile	Leu	Phe	Val	Trp	Val	Tyr	Trp	Thr	Trp	Cys	Ile	Val	Leu	Leu	Gly		
	275					280						285					
Ala	Glu	Ile	Thr	Val	Thr	Leu	Gly	Val	Tyr	Arg	Glu	Leu	Lys	Lys	Ala		
	290					295					300						
Ala	Glu	Ala	Glu	Lys	Gln	Gln	Glu	Ala	Asp	Gln	Pro						
305					310					315							

<210> 10042

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 10042

Ser	Ile	Leu	Cys	Val	Arg	Pro	Ala	Val	Cys	Val	Ala	Ile	Ala	Gly	Ser		
1			5					10						15			
Leu	Pro	Trp	Leu	Phe	Arg	Asn	Thr	Val	Val	Ser	Lys	Gln	Asn	Arg	Val		
		20						25					30				
Ala	His	Ala	Ser	Pro	Leu	Pro	Ala	Gly	Ile	Val	Glu	Leu	Ser	Val	His		
	35						40					45					
Arg	Pro	Pro	His	Ile	Ser	His	Ala	Thr	Pro	Asp	Phe	Leu	Ala	Glu	Glu		
	50					55					60						
Val	Pro	Val	Ala	Leu	Ile	Tyr	Asn	Gly	Ile	Ser	His	Val	Val	Met	Met		
65				70					75					80			
Ala	Ser	Pro	Lys	Asp	Leu	Glu	Leu	Phe	Ala	Ile	Gly	Phe	Ser	Leu	Ser		
			85					90						95			
Glu	Gly	Ile	Ile	Ala	His	Pro	Gln	Glu	Ile	Tyr	Gly	Met	Asp	Val	Val		
		100						105					110				
His	Ala	Cys	Asn	Gly	Leu	Glu	Val	Gln	Ile	Glu	Leu	Ser	Ser	Arg	Arg		
	115						120					125					
Phe	Met	Gly	Leu	Lys	Glu	Arg	Arg	Arg	Ala	Leu	Ala	Gly	Arg	Thr	Gly		
	130					135						140					
Cys	Gly	Val	Cys	Gly	Val	Glu	Gln	Leu	Asn	Asp	Ile	Gly	Lys	Pro	Ile		
145				150						155				160			
Ile	Pro	Leu	Pro	Phe	Thr	Gln	Thr	Phe	Asn	Leu	Ala	His	Leu	Asp	Arg		
			165					170						175			
Ala	Leu	Glu	His	Leu	Asn	Asp	Val	Gln	Pro	Ile	Gly	Gln	Leu	Ser	Gly		
		180						185					190				
Cys	Thr	His	Ala	Ala	Ala	Trp	Ile	Leu	Pro	Ser	Gly	Asn	Ile	Ala	Gly		
	195					200						205					
Gly	His	Glu	Asp	Val	Gly	Arg	His	Val	Ala	Leu	Asp	Lys	Leu	Leu	Gly		
	210					215						220					
Arg	Arg	Ala	Arg	Glu	Ser	Asn	Val	Trp	Gln	Gln	Gly	Ala	Ala	Leu	Val		
225					230					235				240			
Ser	Ser	Arg	Ala	Ser	Tyr	Glu	Met	Val	Gln	Lys	Ser	Ala	Met	Cys	Gly		
			245						250					255			
Val	Glu	Ile	Leu	Phe	Ala	Val	Ser	Ala	Ala	Thr	Thr	Leu	Ala	Val	Glu		
	260							265					270				
Val	Ala	Glu	Arg	Cys	Asn	Leu	Thr	Leu	Val	Gly	Phe	Cys	Lys	Pro	Gly		

275 280 285
 Arg Ala Thr Ile Tyr Thr His Pro Gln Arg Leu Ile Val Asp Gln
 290 295 300

<210> 10043

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 10043

Gly Leu Ile Phe Ile Ser Ser Arg His Gly Ala Leu Ser Lys Gln Leu
 1 5 10 15
 Asn Glu Arg Val Tyr Leu Met Lys Ser Ile Lys Thr Phe Val Ala Val
 20 25 30
 Ile Ala Leu Ala Thr Ser Phe Gly Ser Phe Ala Ala Gln Thr Val Thr
 35 40 45
 Ala Ser Ala Ser Thr Leu Asp Gly Ala Glu Ala Lys Ile Ala Ala Gln
 50 55 60
 Ala Gln Glu Ala Gly Ala Ser Ser Tyr Lys Ile Thr Gln Ala Phe Thr
 65 70 75 80
 Gly Asn Arg Val His Met Thr Ala Glu Leu Asn Lys
 85 90

<210> 10044

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 10044

Pro Tyr Arg Thr Tyr Phe His Tyr Asn Glu Arg Ile Arg Asn Val Leu
 1 5 10 15
 Gln Asp Glu Arg Phe Val Arg Tyr Arg Glu Lys Glu Ala Val Ile Met
 20 25 30
 Thr Gln Pro Ile Ser Val Ile Ala Lys Ser Leu Val Arg Glu Arg Leu
 35 40 45
 Arg Thr Gly Leu Ser Leu Ala Glu Ile Ala Arg Arg Ala Gly Ile Ala
 50 55 60
 Lys Ser Thr Leu Ser Gln Leu Glu Ser Gly Asn Gly Asn Pro Ser Leu
 65 70 75 80
 Glu Thr Leu Trp Ser Leu Cys Val Ala Leu Asp Ile Pro Phe Ala Arg
 85 90 95
 Leu Leu Glu Pro Gln Gln Pro Val Thr Gln Val Ile Arg Arg Gly Glu
 100 105 110
 Gly Thr Lys Val Val Ala Gly Gln Ala Asn Tyr Glu Ala Ile Leu Leu
 115 120 125
 Ala Ala Cys Pro Pro Gly Ala Arg Arg Asp Ile Tyr Leu Leu Leu Thr
 130 135 140
 Gln Pro Gly Ala Asp Arg Ile Ser Gln Pro His Pro Pro Gly Ser Val
 145 150 155 160
 Glu His Ile Ile Val Thr Gln Gly Arg Ala Met Val Gly Leu Ile Asp
 165 170 175
 Ala Ala Glu Glu Leu Gly Pro Gly Asp Tyr Ile Cys Tyr Pro Ala Asp
 180 185 190
 Gln Pro His Ile Phe Lys Ala Leu Glu Pro Asp Thr His Ala Leu Leu
 195 200 205
 Val Ala Glu Gln Asn
 210

<210> 10045

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 10045

Glu Leu Phe Ser Leu Val Gly Ala Val Met Thr Val Leu His Ser Val
 1 5 10 15
 Asp Phe Phe Pro Thr Gly Ala Ser Pro Val Ala Ile Glu Pro Arg Leu
 20 25 30
 Pro Gln Ala Ala Phe Pro Glu His His His Asp Phe His Glu Ile Val
 35 40 45
 Ile Val Glu His Gly Thr Gly Ile His Val Phe Asn Gly Gln Pro Tyr
 50 55 60
 Thr Ile Ser Gly Gly Thr Val Cys Phe Val Arg Asp His Asp Arg His
 65 70 75 80
 Leu Tyr Glu His Thr Asp Asn Leu Cys Leu Thr Asn Val Leu Tyr Arg
 85 90 95
 Ser Pro Asp Ala Phe Gln Phe Leu Ser Gly Leu Asn Gln Leu Leu Pro
 100 105 110
 Gln Glu Lys Asp Gly His Tyr Pro Ser His Trp Arg Val Asn Gln Ser
 115 120 125
 Thr Leu Gln Gln Val Arg Gln Leu Val Ser Gln Met Glu Gln Ser Glu
 130 135 140
 Asp Gly Gln Glu Thr His Ala Ile Ala Thr Arg Glu Leu Leu Phe Met
 145 150 155 160
 Gln Leu Leu Val Leu Leu Arg Arg Ser Ser Leu Val Glu Gly Leu Glu
 165 170 175
 Asn Asn Asp Ala Arg Leu Asn Gln Leu Met Ala Trp Leu Glu Asp His
 180 185 190
 Phe Ala Glu Asp Val Cys Trp Glu Thr Leu Ala Asp Asp Phe Ser Leu
 195 200 205
 Ser Leu Arg Thr Leu His Arg Gln Leu Lys Gln His Thr Gly Leu Thr
 210 215 220
 Pro Gln Arg Tyr Leu Asn Arg Leu Arg Leu Ile Lys Ala Arg His Leu
 225 230 235 240
 Leu Arg His Thr Asp Glu Ser Val Thr Asp Ile Ala Tyr Arg Cys Gly
 245 250 255
 Phe Gly Asp Ser Asn His Phe Ser Thr Leu Phe Arg Arg Glu Phe Ser
 260 265 270
 Trp Ser Pro Arg Asp Ile Arg Gln Gly Lys Asp Ala Leu Leu Gln
 275 280 285

<210> 10046

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 10046

Lys Ile Leu Gln Glu Thr Gly Met Ser Leu Trp Leu Thr His Pro Leu
 1 5 10 15
 Leu Leu Pro Ser Leu Ile Val Gly Val Thr Ile Val Leu Trp Ala Thr
 20 25 30
 Ser Leu Leu Pro Glu Phe Ile Thr Ala Leu Leu Phe Phe Thr Ala Ala
 35 40 45
 Met Ala Ala Arg Ile Ala Pro Glu Val Ile Phe Gly Gly Phe Ala
 50 55 60
 Ser Ser Ala Phe Trp Leu Val Phe Ser Gly Phe Val Leu Gly Val Ala
 65 70 75 80
 Ile Arg Lys Thr Gly Leu Ala Asp Arg Ala Ala Arg Ala Leu Ser Ala
 85 90 95
 Lys Leu Thr Asp Ser Trp Val Leu Met Val Ala Ser Val Val Leu Leu
 100 105 110
 Ser Tyr Ala Leu Ala Phe Val Met Pro Ser Asn Met Gly Arg Ile Ala


```

115      120      125
Leu Leu Met Pro Ile Val Ala Ala Met Ala Lys Arg Ala Gly Ile Pro
130      135      140
Asp Gly Ser Arg Ala Trp Phe Gly Leu Ala Leu Ala Val Gly Phe Gly
145      150      155      160
Thr Phe Gln Leu Ser Ala Thr Ile Leu Pro Ala Asn Val Pro Asn Leu
165      170      175
Val Met Ser Gly Ala Ala Glu Gly Ser Tyr Gly Ile His Leu Asn Tyr
180      185      190
Val Pro Tyr Leu Leu Leu His Thr Pro Val Leu Gly Ile Leu Lys Gly
195      200      205
Leu Ile Leu Ile Gly Leu Ile Cys Trp Leu Phe Pro Gly Asn Pro Lys
210      215      220
Pro Ala Lys Asp Leu Ala Pro Ser Glu Pro Met Gly Arg Asp Glu Lys
225      230      235      240
Arg Leu Ala Trp Leu Leu Ala Val Val Leu Thr Met Trp Val Thr Glu
245      250      255
Ser Trp His Gly Val Gly Pro Ala Trp Thr Gly Leu Ala Ala Ser Val
260      265      270
Val Val Met Leu Pro Arg Ile Gly Phe Ile Thr Gly Glu Glu Phe Ser
275      280      285
Ala Gly Val Asn Met Arg Thr Cys Ile Tyr Val Ala Gly Ile Leu Gly
290      295      300
Leu Ala Ile Thr Val Thr Gln Thr Gly Ile Gly Ala Ala Val Gly Glu
305      310      315      320
Thr Leu Leu His Ile Met Pro Leu Asp Ala Asp Arg Pro Phe Thr Ser
325      330      335
Phe Leu Ala Leu Thr Gly Ile Thr Thr Ala Leu Asn Phe Ile Met Thr
340      345      350
Ala Asn Gly Val Pro Ala Leu Tyr Thr Thr Leu Ala Gln Ser Phe Ser
355      360      365
Asp Ala Thr Gly Phe Pro Leu Leu Ser Val Ile Met Ile Gln Val Leu
370      375      380
Gly Tyr Ser Thr Pro Leu Leu Pro Tyr Gln Ala Ser Pro Ile Val Val
385      390      395      400
Ala Met Gly Leu Gly Lys Val Pro Ala Lys Ala Gly Met Leu Leu Cys
405      410      415
Leu Ala Leu Ala Ile Ala Thr Tyr Leu Val Leu Leu Pro Leu Asp Tyr
420      425      430
Leu Trp Phe Ser Val Leu Gly Arg Leu
435      440

```

<210> 10047

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 10047

```

Leu Lys Arg Tyr Leu Val Gly Leu Ser Lys Gly His Asn Ser Arg Val
1      5      10      15
Lys Cys Gly Leu Asn Asn Asn Lys Glu Pro Tyr Met Thr Ile Gln Gln
20      25      30
Trp Leu Phe Ser Phe Lys Gly Arg Ile Gly Arg Arg Asp Phe Trp Ile
35      40      45
Trp Ile Ala Thr Trp Val Val Ala Met Leu Leu Leu Phe Phe Val Ala
50      55      60
Tyr Asn Ala Trp Leu Ser Thr Gln Thr Ala Ala Phe Ala Leu Val Cys
65      70      75      80
Leu Leu Trp Pro Thr Ala Ala Val Val Lys Arg Leu His Asp Arg
85      90      95
Gly Arg Ser Gly Ala Trp Ala Phe Leu Ile Ile Leu Ala Trp Met Leu

```

```
<210> 10048
<211> 91
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10049
<211> 1073
<212> PRT
<213> Enterobacter cloacae
```

400> 10049																
Cys 1	Lys	Asn	Arg	Cys 5	His	Asp	Arg	Gln	Arg	Pro	Gln	Leu	Ile	Pro		
Tyr	Leu	Arg	Ile	Gln	Ser	Met	Asp	Phe	Ser	Arg	Phe	Phe	Ile	Asp	Arg	
			20					25					30			
Pro	Ile	Phe	Ala	Ala	Val	Leu	Ser	Ile	Leu	Ile	Phe	Ile	Thr	Gly	Leu	
		35					40					45				
Ile	Ala	Ile	Pro	Leu	Leu	Pro	Val	Ser	Glu	Tyr	Pro	Asp	Val	Val	Pro	
	50					55					60					
Pro	Ser	Val	Gln	Val	Arg	Ala	Glu	Tyr	Pro	Gly	Ala	Asn	Pro	Lys	Val	
65					70					75					80	
Ile	Ala	Glu	Thr	Val	Ala	Thr	Pro	Leu	Glu	Glu	Ala	Ile	Asn	Gly	Val	
				85					90					95		
Glu	Asn	Met	Met	Tyr	Met	Lys	Ser	Val	Ala	Gly	Ser	Asp	Gly	Val	Leu	
			100					105					110			
Val	Thr	Thr	Val	Thr	Phe	Arg	Pro	Gly	Thr	Asp	Pro	Asp	Gln	Ala	Gln	
			115				120					125				
Val	Gln	Val	Gln	Asn	Arg	Val	Ala	Gln	Ala	Glu	Ala	Arg	Leu	Pro	Glu	
	130					135					140					
Asp	Val	Arg	Arg	Leu	Gly	Ile	Thr	Thr	Gln	Lys	Gln	Ser	Pro	Thr	Leu	
145					150					155					160	
Thr	Leu	Val	Val	His	Leu	Phe	Ser	Pro	Gly	Gly	Lys	Tyr	Asp	Ser	Leu	
				165					170					175		
Tyr	Met	Arg	Asn	Tyr	Ala	Thr	Leu	Lys	Val	Lys	Asp	Glu	Leu	Ala	Arg	
			180					185					190			
Leu	Pro	Gly	Val	Gly	Gln	Ile	Gln	Ile	Phe	Gly	Ser	Gly	Glu	Tyr	Ala	
		195					200					205				

Met Arg Val Trp Leu Asp Pro Asn Lys Val Ala Ala Arg Gly Leu Thr
 210 215 220
 Ala Ser Asp Val Val Thr Ala Met Gln Glu Gln Asn Val Gln Val Ser
 225 230 235 240
 Ala Gly Gln Leu Gly Ala Glu Pro Leu Pro Lys Glu Ser Asp Phe Leu
 245 250 255
 Ile Ser Ile Asn Ala Gln Gly Arg Leu His Thr Glu Glu Glu Phe Gly
 260 265 270
 Asn Ile Val Leu Lys Thr Thr Gln Asp Gly Thr Val Val Arg Leu Arg
 275 280 285
 Asp Val Ala Arg Ile Glu Met Gly Ser Gly Ser Tyr Ala Leu Arg Ser
 290 295 300
 Gln Leu Asn Asn Lys Asp Ala Val Gly Ile Gly Ile Phe Gln Ser Pro
 305 310 315 320
 Gly Ala Asn Ala Ile Asp Leu Ser Asn Ala Val Arg Ala Lys Met Asp
 325 330 335
 Glu Leu Ser Thr Arg Phe Pro Ala Asp Met Lys Trp Ala Ala Pro Tyr
 340 345 350
 Asp Pro Thr Val Phe Val Arg Asp Ser Ile Arg Ala Val Val Gln Thr
 355 360 365
 Leu Leu Glu Ala Val Val Leu Val Val Leu Val Val Ile Leu Phe Leu
 370 375 380
 Gln Thr Trp Arg Ala Ser Ile Ile Pro Leu Ile Ala Val Pro Val Ser
 385 390 395 400
 Val Val Gly Thr Phe Ser Ile Leu Tyr Leu Leu Gly Phe Ser Leu Asn
 405 410 415
 Thr Leu Ser Leu Phe Gly Leu Val Leu Ala Ile Gly Ile Val Val Asp
 420 425 430
 Asp Ala Ile Val Val Val Glu Asn Val Glu Arg Asn Ile Glu Glu Gly
 435 440 445
 Leu Ala Pro Leu Ala Ala Ala His Gln Ala Met Arg Glu Val Ser Gly
 450 455 460
 Pro Ile Ile Ala Ile Ala Leu Val Leu Cys Ala Val Phe Val Pro Met
 465 470 475 480
 Ala Phe Leu Ser Gly Val Thr Gly Gln Phe Tyr Lys Gln Phe Ala Val
 485 490 495
 Thr Ile Ala Ile Ser Thr Val Ile Ser Ala Ile Asn Ser Leu Thr Leu
 500 505 510
 Ser Pro Ala Leu Ala Ala Leu Leu Lys Pro His Gly Ala Pro Lys
 515 520 525
 Asp Phe Pro Thr Arg Leu Ile Asp Arg Leu Phe Gly Trp Ile Phe Arg
 530 535 540
 Pro Phe Asn Arg Phe Phe Leu Arg Ser Ser Asn Gly Tyr Gln Gly Leu
 545 550 555 560
 Val Gly Lys Thr Leu Gly Arg Arg Gly Ala Val Phe Val Val Tyr Leu
 565 570 575
 Leu Leu Leu Cys Ala Ala Gly Val Met Phe Lys Ala Val Pro Gly Gly
 580 585 590
 Phe Ile Pro Thr Gln Asp Lys Leu Tyr Leu Ile Gly Gly Val Lys Met
 595 600 605
 Pro Glu Gly Ser Ser Leu Ala Arg Thr Asp Ala Val Ile Arg Lys Met
 610 615 620
 Ser Glu Ile Gly Met Asn Thr Glu Gly Val Asp Tyr Ala Val Ala Phe
 625 630 635 640
 Pro Gly Leu Asn Ala Leu Gln Phe Thr Asn Thr Pro Asn Thr Gly Thr
 645 650 655
 Val Phe Phe Gly Leu Lys Pro Phe Asp Gln Arg Lys His Ser Ala Ala
 660 665 670
 Glu Ile Asn Ala Glu Ile Asn Ala Lys Ile Ala Gln Ile Gln Gln Gly
 675 680 685
 Phe Gly Phe Ser Ile Leu Pro Pro Pro Ile Leu Gly Leu Gly Gln Gly

690
 Ser Gly Tyr Ser Leu Tyr Ile Gln Asp Arg Ala Gly Leu Gly Tyr Gly
 705
 Ala Leu Gln Asn Ala Val Asn Thr Met Ser Gly Ala Ile Met Gln Thr
 725
 Pro Gly Met His Phe Pro Ile Ser Thr Tyr Gln Ala Asn Val Pro Gln
 740
 Leu Asp Val Gln Val Asp Arg Asp Lys Ala Lys Ala Gln Gly Val Ser
 755
 Leu Thr Asp Leu Phe Gly Thr Leu Gln Thr Tyr Leu Gly Ser Ser Tyr
 770
 Val Asn Asp Phe Asn Gln Phe Gly Arg Thr Trp Arg Val Met Ala Gln
 785
 Ala Asp Gly Gln Phe Arg Asp Ser Val Glu Asp Ile Ala Asn Leu Arg
 805
 Thr Arg Asn Ser Gln Gly Glu Met Val Pro Ile Gly Ser Met Val Asn
 820
 Ile Thr Thr Thr Tyr Gly Pro Asp Pro Val Ile Arg Tyr Asn Gly Tyr
 835
 Pro Ala Ala Asp Leu Ile Gly Asp Ala Asp Pro Arg Val Leu Ser Ser
 850
 Ala Gln Ala Met Thr Gln Leu Asp Ala Met Ser Lys Gln Ile Leu Pro
 865
 Asn Gly Met Asn Ile Glu Trp Thr Asp Leu Ser Phe Gln Gln Ala Thr
 885
 Gln Gly Asn Thr Ala Leu Ile Val Phe Pro Val Ala Val Leu Leu Ala
 900
 Phe Leu Val Leu Ala Ala Leu Tyr Glu Ser Trp Thr Leu Pro Leu Ala
 915
 Val Ile Leu Ile Val Pro Met Thr Met Leu Ser Ala Leu Phe Gly Val
 930
 Trp Leu Thr Gly Gly Asp Asn Asn Val Phe Val Gln Val Gly Leu Val
 945
 Val Leu Met Gly Leu Ala Cys Lys Asn Ala Ile Leu Ile Val Glu Phe
 965
 Ala Arg Glu Leu Glu Ile Gln Gly Lys Gly Ile Met Glu Ala Ala Leu
 980
 Glu Ala Cys Arg Leu Arg Leu Arg Pro Ile Val Met Thr Ser Ile Ala
 995
 Phe Ile Ala Gly Thr Ile Pro Leu Ile Leu Gly His Gly Ala Gly Ala
 1010
 Glu Val Arg Gly Val Thr Gly Ile Thr Val Phe Ser Gly Met Leu Gly
 1025
 Val Thr Leu Phe Gly Leu Phe Leu Thr Pro Val Phe Tyr Val Thr Leu
 1045
 Arg Lys Phe Val Thr Arg Gly Lys Ala Glu Arg Glu Val Leu Pro Ala
 1060
 1065
 1070

<210> 10050

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 10050

Ile Gln Arg Ala Ser Leu Met Arg Asn Ile Thr Leu Arg His Ser Phe
 1 5 10 15
 Pro Arg Ser Arg Ile Gly Arg Ser Met Lys Ser Ile Leu Pro Gly Ala
 20 25 30
 Val Leu Ala Leu Leu Ala Thr Thr Ala Leu Ala Ala Asp Gln Arg Gln

```
<210> 10051
<211> 301
<212> PRT
<213> Enterobacter cloacae
```

Glu 1	Lys	Leu	Cys 5	Met	Thr	Thr	Leu	Asn 10	Leu	Gly	His	Leu	Ala 15	Thr	Phe
Arg	Leu	Val 20	Gln	Arg	Gly	Ser 25	Phe	Ser	Ala	Ala	Ala 30	Asp	Val	Met	
Gly	Ile 35	Ser	Gln	Pro	Ala	Val 40	Ser	Leu	Gln	Ile	Arg 45	Gln	Leu	Glu	Gln
Phe 50	Leu	Gln	Thr	Arg	Leu 55	Ile	Glu	Arg	Thr	Gly 60	Arg	Gly	Ile	Lys	Ala
Thr 65	Ala	Ala	Gly	Glu 70	Ala	Leu	Arg	Val	His 75	Gly	Glu	Arg	Leu	Glu	Leu 80
Ala	Val	Glu	Glu 85	Thr	Ile	Arg	Ser	Val 90	Ser	Ala	Phe	Asn	Gln 95	Glu	Val
Ser	Gly	Thr 100	Ile	Thr	Leu	Gly	Thr 105	Gly	Ala	Thr	Ala	Cys 110	Ile	His	Leu
Leu	Pro 115	Ala	Leu	Leu	Gln	Gln 120	Leu	Arg	Glu	Glu	Tyr 125	Pro	Leu	Leu	Arg
Ile 130	Gly	Val	Thr	Thr	Gly 135	Asn	Thr	Pro	Asp	Ile 140	Val	Arg	Ala	Ile	Glu
Glu 145	Asn	Arg	Leu	Asp 150	Met	Gly	Leu	Val	Thr 155	Leu	Pro	Ala	Ser	Gly	Arg 160
Thr	Leu	Ala 165	Ile	Met	His	Ala	Met	Glu 170	Glu	Glu	Phe	Val	Trp 175	Ile	Gly
Ala	Gln	Val	Gln	Pro	Glu	Glu	Gly	Glu	Gln	Phe	Thr	Pro	Asp	Ser	Leu

```
<210> 10052
<211> 436
<212> PRT
<213> Enterobacter cloacae
```

<400> 10052															
His	Ser	Glu	Glu	Asn	Thr	Met	Thr	Arg	Arg	Ala	Ile	Gly	Val	Ser	Glu
1				5					10					15	
Arg	Pro	Pro	Leu	Leu	Gln	Thr	Ile	Pro	Leu	Ser	Leu	Gln	His	Leu	Phe
			20					25					30		
Ala	Met	Phe	Gly	Ala	Thr	Val	Leu	Val	Pro	Ile	Leu	Phe	His	Ile	Asn
			35				40					45			
Pro	Ala	Thr	Val	Leu	Leu	Phe	Asn	Gly	Ile	Gly	Thr	Leu	Leu	Tyr	Leu
						55					60				
Phe	Ile	Cys	Lys	Gly	Lys	Ile	Pro	Ala	Tyr	Leu	Gly	Ser	Ser	Phe	Ala
65					70					75					80
Phe	Ile	Ser	Pro	Val	Leu	Leu	Leu	Pro	Leu	Gly	Tyr	Glu	Val	Ala	
				85				90					95		
Leu	Gly	Gly	Phe	Ile	Met	Cys	Gly	Val	Leu	Phe	Cys	Leu	Val	Ser	Phe
			100					105					110		
Ile	Val	Lys	Lys	Ala	Gly	Thr	Gly	Trp	Leu	Asp	Val	Met	Phe	Pro	Pro
			115				120					125			
Ala	Ala	Met	Gly	Ala	Ile	Val	Ala	Val	Ile	Gly	Leu	Glu	Leu	Ala	Gly
			130			135					140				
Val	Ala	Ala	Asn	Met	Ala	Gly	Leu	Leu	Pro	Ala	Asp	Gly	Gln	Ser	Pro
145				150					155					160	
Asp	Ser	Lys	Thr	Ile	Ile	Ile	Ser	Leu	Val	Thr	Leu	Gly	Val	Thr	Val
			165					170						175	
Phe	Gly	Ser	Val	Leu	Phe	Arg	Gly	Phe	Met	Ala	Ile	Ile	Pro	Ile	Leu
			180					185					190		
Ile	Gly	Val	Leu	Ala	Gly	Tyr	Ala	Leu	Ser	Phe	Val	Met	Gly	Val	Val
		195					200					205			
Asp	Thr	Thr	Pro	Ile	Ala	Glu	Ala	His	Trp	Phe	Ala	Leu	Pro	Thr	Xaa
						215						220			
Tyr	Thr	Pro	Arg	Phe	Glu	Trp	Phe	Ala	Ile	Phe	Thr	Ile	Leu	Pro	Ala
225				230						235				240	
Ala	Leu	Val	Val	Ile	Ala	Glu	His	Val	Gly	His	Leu	Val	Val	Thr	Ala
			245						250					255	
Asn	Ile	Val	Lys	Arg	Asp	Leu	Ile	Arg	Asp	Pro	Gly	Leu	His	Arg	Ser
			260					265				270			
Met	Phe	Ala	Asn	Gly	Phe	Ser	Thr	Ile	Ile	Ser	Gly	Phe	Phe	Gly	Ser

275 280 285
 Thr Pro Asn Thr Thr Tyr Gly Glu Asn Ile Gly Val Met Ala Ile Thr
 290 295 300
 Arg Val Tyr Ser Thr Trp Val Ile Gly Gly Ala Ala Ile Ile Ala Ile
 305 310 315 320
 Leu Leu Ser Cys Val Gly Lys Leu Ala Ala Ala Ile Gln Ile Ile Pro
 325 330 335
 Val Pro Val Met Gly Gly Val Ser Leu Leu Leu Tyr Gly Val Ile Gly
 340 345 350
 Ala Ser Gly Ile Arg Val Leu Ile Glu Ser Lys Val Asp Tyr Ser Lys
 355 360 365
 Ala Gln Asn Leu Ile Leu Thr Ser Val Ile Leu Ile Ile Gly Val Ser
 370 375 380
 Gly Ala Lys Val His Ile Gly Ala Ala Glu Leu Lys Gly Met Ala Leu
 385 390 395 400
 Ala Thr Ile Val Gly Val Gly Leu Ser Leu Ile Phe Lys Leu Ile Ser
 405 410 415
 Val Ile Arg Pro Glu Glu Val Val Leu Asp Ala Asp Asp Ser Glu Lys
 420 425 430
 Ala Pro His
 435

<210> 10053

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 10053

Thr Pro Phe Arg Phe Tyr Val Arg Ser Leu Val Glu Val Phe Leu Asn
 1 5 10 15
 Gly Pro Ala Gln Leu Ser Leu Pro Leu Tyr Leu Pro Asp Asp Glu Thr
 20 25 30
 Phe Ala Ser Phe Trp Pro Gly Asp Asn Pro Ser Leu Leu Ala Ala Leu
 35 40 45
 Gln Asn Val Leu Arg Gln Glu His Ser Gly Tyr Ile Tyr Ile Trp Ser
 50 55 60
 Arg Glu Gly Ala Gly Arg Ser His Leu Leu His Ala Ala Cys Ala Glu
 65 70 75 80
 Leu Ser Ala Arg Gly Asp Ala Val Gly Tyr Val Pro Leu Asp Lys Arg
 85 90 95
 Thr Trp Phe Val Pro Glu Val Leu Glu Gly Met Glu His Leu Ser Leu
 100 105 110
 Val Cys Ile Asp Asn Ile Glu Cys Val Ala Gly Asp Glu Pro Trp Glu
 115 120 125
 Met Ala Ile Phe Asn Leu Tyr Asn Arg Ile Leu Glu Ser Gly Lys Thr
 130 135 140
 Arg Leu Leu Ile Thr Gly Asp Arg Pro Pro Arg Gln Leu Asn Leu Gly
 145 150 155 160
 Leu Pro Asp Leu Ala Ser Arg Leu Asp Trp Gly Gln Ile Tyr Lys Leu
 165 170 175
 Gln Pro Leu Ser Asp Glu Asp Lys Leu Gln Ala Leu Gln Leu Arg Ala
 180 185 190
 Arg Leu Arg Gly Phe Glu Leu Pro Glu Asp Val Gly Arg Phe Leu Leu
 195 200 205
 Lys Arg Leu Asp Arg Glu Met Arg Thr Leu Phe Asp Thr Leu Asp Gln
 210 215 220
 Leu Asp Arg Ala Ser Ile Thr Ala Gln Arg Lys Leu Thr Ile Pro Phe
 225 230 235 240
 Val Lys Asp Ile Leu Lys Leu
 245

<210> 10054
 <211> 248
 <212> PRT
 <213> Enterobacter cloacae

<400> 10054

```

Ile Gln Ile Ile Thr Pro Gly Val Met Lys Met Gln Lys Gln Ala Glu
1      5      10      15
Leu Tyr Arg Gly Lys Ala Lys Thr Val Tyr Ser Thr Glu Asn Pro Asp
      20      25      30
Leu Leu Val Leu Glu Phe Arg Asn Asp Thr Ser Ala Gly Asp Gly Ala
      35      40      45
Arg Ile Glu Gln Phe Asp Arg Lys Gly Met Val Asn Asn Lys Phe Asn
      50      55      60
His Phe Ile Met Thr Lys Leu Ala Glu Ala Gly Ile Pro Thr Gln Met
65      70      75      80
Glu Ala Leu Leu Ser Asp Thr Glu Cys Leu Val Lys Lys Leu Asp Met
      85      90      95
Val Pro Val Glu Cys Val Ile Arg Asn Arg Ala Ala Gly Ser Leu Val
      100     105     110
Lys Arg Leu Gly Ile Glu Glu Gly Ile Glu Leu Asn Pro Pro Leu Phe
      115     120     125
Asp Leu Phe Leu Lys Asn Asp Ala Met His Asp Pro Met Val Asn Glu
      130     135     140
Ser Tyr Cys Glu Thr Phe Gly Trp Val Ser Lys Glu Asn Leu Ala Arg
145     150     155     160
Met Gln Glu Leu Thr Tyr Lys Ala Asn Asp Val Leu Lys Lys Leu Phe
      165     170     175
Asp Asp Ala Gly Leu Ile Leu Val Asp Phe Lys Leu Glu Phe Gly Leu
      180     185     190
Tyr Lys Gly Glu Val Val Leu Gly Asp Glu Phe Ser Pro Asp Gly Ser
      195     200     205
Arg Leu Trp Asp Lys Glu Thr Leu Asp Lys Met Asp Lys Asp Arg Phe
      210     215     220
Arg Gln Ser Leu Gly Gly Val Val Glu Ala Tyr Glu Ala Val Ala His
225     230     235     240
Arg Leu Gly Val Lys Leu Asp
      245

```

<210> 10055
 <211> 294
 <212> PRT
 <213> Enterobacter cloacae

<400> 10055

```

Phe Glu Val Phe Met Arg Trp Gln Gly Arg Arg Glu Ser Asp Asn Val
1      5      10      15
Glu Asp Arg Arg Ser Ser Gly Gly Gly Gly Pro Ser Met Gly Gly Pro
      20      25      30
Gly Phe Arg Leu Pro Ser Gly Lys Gly Gly Ile Ile Leu Leu Val Val
      35      40      45
Val Leu Val Ala Gly Tyr Tyr Gly Val Asp Leu Thr Gly Leu Met Thr
      50      55      60
Gly Glu Thr Gly Gln Gln Gln Gln Tyr Ser Gln Arg Ser Ile Ser Pro
65      70      75      80
Asn Glu Asp Glu Ala Ala Lys Phe Thr Ser Val Ile Leu Ala Thr Thr
      85      90      95
Glu Asp Thr Trp Gly Gln Gln Phe Glu Lys Met Gly Arg Thr Tyr Gln
      100     105     110
Pro Pro Lys Leu Val Met Tyr Arg Gly Ala Thr Arg Thr Gly Cys Gly
      115     120     125

```


Thr Gly Gln Ser Val Met Gly Pro Phe Tyr Cys Pro Ala Asp Ser Thr
 130 135 140
 Val Tyr Ile Asp Leu Ser Phe Tyr Asp Asp Met Lys Ser Lys Leu Gly
 145 150 155 160
 Ala Asp Gly Asp Phe Ala Gln Gly Tyr Val Ile Ala His Glu Val Gly
 165 170 175
 His His Val Gln Lys Leu Leu Gly Ile Glu Pro Lys Val Arg Gln Met
 180 185 190
 Gln Gln Asn Ala Ser Gln Ala Glu Met Asn Arg Leu Ser Val Arg Met
 195 200 205
 Glu Leu Gln Ala Asp Cys Phe Ala Gly Val Trp Gly His Ser Met Gln
 210 215 220
 Gln Gln Gly Val Leu Glu Thr Gly Asp Leu Glu Glu Ala Leu Asn Ala
 225 230 235 240
 Ala Gln Ala Ile Gly Asp Asp Arg Leu Gln Gln Gln Ser Gln Gly Arg
 245 250 255
 Val Val Pro Asp Ser Phe Thr His Gly Thr Ser Glu Gln Arg Tyr Ser
 260 265 270
 Trp Phe Lys Arg Gly Phe Asp Ser Gly Asn Pro Ser Gln Cys Asn Thr
 275 280 285
 Phe Gly Lys Ala Met
 290

<210> 10056

<211> 268

<212> PRT

<213> *Enterobacter cloacae*

<400> 10056

Lys Pro Thr Phe Cys Asn Gly Asn Phe Phe Asn Asp Phe Phe Ser Lys
 1 5 10 15
 Val Ala Trp Ser Leu Pro Arg Arg Gly Val Lys Ser Cys Leu Ser Ile
 20 25 30
 Lys Glu Ile Ala Met Lys His Asp His Phe Val Val Gln Ser Pro Asp
 35 40 45
 Thr Pro Ala Lys Gln Leu Leu Leu Phe His Gly Val Gly Asp Asn
 50 55 60
 Ala Val Asn Met Gly Gln Ile Gly Ser Trp Phe Ala Pro Val Phe Pro
 65 70 75 80
 His Ala Leu Ile Val Ser Ile Gly Gly Val Glu Pro Cys Gly Pro Asp
 85 90 95
 Gly Arg Gln Trp Phe Ser Val Glu Gly Val Thr Glu Glu Asn Arg Gln
 100 105 110
 Ala Arg Ile Asp Ala Val Met Pro Ala Phe Ile Asp Thr Val Arg Tyr
 115 120 125
 Trp Gln Gln Gln Ser Gly Val Gly Ala Asp Ala Thr Ala Leu Ile Gly
 130 135 140
 Phe Ser Gln Gly Ser Ile Met Ser Leu Glu Ser Val Lys Ala Gln Pro
 145 150 155 160
 Gly Leu Val Ser Arg Val Ile Ala Phe Asn Gly Arg Phe Ala Thr Leu
 165 170 175
 Pro Gln Ser Ala Thr Thr Gln Thr Thr Ile His Leu Ile His Gly Gly
 180 185 190
 Glu Asp Arg Val Ile Glu Leu Ser His Ala Val Ala Ala Gln Glu Thr
 195 200 205
 Leu Met Arg Glu Gly Gly Asp Val Thr Leu Asp Ile Val Asp Asp Leu
 210 215 220
 Gly His Ala Ile Asp Asp Arg Ser Met Gln Phe Ala Leu Asp His Leu
 225 230 235 240
 Arg Tyr Thr Val Pro Lys His Tyr Phe Asp Glu Ala Leu Ser Gly Ala
 245 250 255

Lys Pro Asn Asp Asp Asp Ile Val Glu Phe Met
260 265

<210> 10057

<211> 686

<212> PRT

<213> Enterobacter cloacae

<400> 10057

Thr	Leu	Arg	Arg	His	Ala	Ala	Val	Gly	Lys	Tyr	Asp	Asn	Asn	Arg	Lys
1				5					10					15	
Asn	Lys	Val	Ile	Glu	Pro	Lys	Thr	Gly	Val	Val	Met	Asn	Arg	Phe	Ile
		20						25				30			
Met	Ala	Asn	Ala	Gln	Gln	Cys	Ile	Gly	Cys	Arg	Ala	Cys	Glu	Val	Ala
		35					40					45			
Cys	Val	Met	Ala	His	Asn	Gly	Glu	Gln	His	Ala	Leu	Ser	Glu	Arg	His
	50					55					60				
Phe	His	Pro	Arg	Ile	Thr	Val	Leu	Thr	Ser	Gly	Leu	Arg	Lys	Ser	Pro
65					70					75				80	
Val	Thr	Cys	His	His	Cys	Glu	Asn	Ala	Pro	Cys	Ala	Gln	Ser	Cys	Pro
				85					90					95	
Asn	Gly	Ala	Ile	Thr	Gln	His	Ser	Asp	Ser	Val	Gln	Val	Asn	Gln	Gln
			100					105					110		
Lys	Cys	Ile	Gly	Cys	Lys	Ala	Cys	Val	Val	Ala	Cys	Pro	Phe	Gly	Thr
		115					120					125			
Met	Asp	Met	Leu	Ile	Ala	Pro	Leu	Glu	Asn	Asp	Ser	Val	Lys	Ala	Ser
		130				135						140			
Ala	His	Lys	Cys	Asp	Leu	Cys	Leu	Glu	Arg	Pro	Gln	Gly	Pro	Ala	Cys
145					150					155				160	
Val	Glu	Asn	Cys	Pro	Ala	Glu	Val	Leu	Thr	Leu	Ala	Thr	Pro	Ala	Val
				165					170					175	
Leu	Asp	Lys	Leu	Val	Lys	Gln	Arg	Arg	Gln	Arg	Ser	Ala	Arg	Leu	Asp
			180					185					190		
Ala	Leu	Pro	Trp	His	Ser	Glu	Ala	Val	Gln	Ser	Val	Pro	Pro	Gln	Thr
		195					200					205			
Lys	Arg	Gln	Gln	Met	Gln	Asn	Thr	Pro	Ala	Arg	Gly	Glu	Pro	Asp	Lys
		210				215					220				
Leu	Ser	Pro	Asp	Ala	Arg	Ala	Gly	His	Phe	Asn	Glu	Ile	Tyr	Leu	Pro
225					230					235				240	
Phe	Arg	Pro	Glu	Gln	Ala	Gln	Arg	Glu	Ala	Ser	Arg	Cys	Leu	Lys	Cys
				245					250					255	
Gly	Asp	His	Ser	Ile	Cys	Glu	Trp	Thr	Cys	Pro	Leu	His	Asn	His	Ile
			260					265					270		
Pro	Gln	Trp	Ile	Glu	Arg	Ile	Arg	Ala	Gly	Asp	Ile	Ile	Gly	Ala	Ala
		275					280					285			
Glu	Leu	Ser	His	Gln	Thr	Asn	Cys	Leu	Pro	Glu	Ile	Thr	Gly	Arg	Val
		290				295					300				
Cys	Pro	Gln	Asp	Arg	Leu	Cys	Glu	Gly	Ala	Cys	Thr	Leu	Arg	Asp	Ala
305					310					315				320	
Ser	Gly	Ala	Val	Thr	Ile	Gly	Asn	Ile	Glu	Arg	Tyr	Ile	Ser	Asp	Arg
				325					330					335	
Ala	Leu	Ala	Met	Gly	Trp	Thr	Pro	Asp	Val	Ser	His	Val	Lys	Pro	Val
			340					345					350		
Gly	Lys	Arg	Val	Ala	Ile	Ile	Gly	Ala	Gly	Pro	Ala	Gly	Leu	Ala	Cys
		355					360					365			
Ala	Asp	Val	Leu	Val	Arg	Ser	Gly	Val	Gly	Val	Thr	Val	Tyr	Asp	Arg
		370				375					380				
His	Pro	Glu	Ile	Gly	Gly	Leu	Leu	Thr	Phe	Gly	Ile	Pro	Ala	Phe	Lys
385					390					395				400	
Leu	Asp	Lys	Ser	Leu	Leu	Ala	Arg	Arg	Arg	Glu	Ile	Phe	Ser	Ala	Met
				405					410					415	

Gly Ile Arg Phe Glu Leu Asn Cys Glu Val Gly Lys Asp Val Ser Met
 420 425 430
 Ala Gln Leu Gln Asn Asp Tyr Asp Ala Leu Phe Ile Gly Val Gly Thr
 435 440 445
 Tyr Arg Ser Met Lys Ala Gly Ile Pro His Glu Asp Ala Pro Gly Val
 450 455 460
 Tyr Asp Ala Leu Pro Phe Leu Val Ala Asn Thr Arg Asn Val Met Gly
 465 470 475 480
 Leu Asp Pro Ala Ala Asp Glu Pro Phe Ile Asp Thr Gln Gly Leu Asn
 485 490 495
 Val Val Val Leu Gly Gly Gly Asp Thr Ala Met Asp Cys Val Arg Thr
 500 505 510
 Ala Leu Arg His Gly Ala Ala Lys Val Thr Cys Ala Tyr Arg Arg Asp
 515 520 525
 Glu Ala Asn Met Pro Gly Ser Lys Lys Glu Val Lys Asn Ala Lys Glu
 530 535 540
 Glu Gly Ala Ala Phe Glu Phe Asn Val Gln Pro Val Glu Leu Thr Leu
 545 550 555 560
 Asp Thr Asp Gly Lys Val Asn Gly Ile Arg Met Leu Arg Thr Arg Leu
 565 570 575
 Gly Glu Pro Asp Ala Gln Gly Arg Arg Arg Pro Val Pro Val Ala Gly
 580 585 590
 Ser Glu Phe Val Met Pro Ala Asp Ala Val Ile Met Ala Phe Gly Phe
 595 600 605
 Asn Pro His Ala Met Pro Trp Leu Gln Ala Gln Gly Val Asp Thr Asp
 610 615 620
 Asp Trp Gly Arg Ile Lys Ala Ser Val Glu Ser Arg Tyr Arg Tyr Gln
 625 630 635 640
 Thr Ser Asn Pro Gln Ile Phe Ala Gly Gly Asp Ala Val Arg Gly Ala
 645 650 655
 Asp Leu Val Val Thr Ala Met Ala Glu Gly Arg His Ala Ala Gln Gly
 660 665 670
 Ile Met Asp Trp Leu Gly Val Pro Arg Asn Met His
 675 680 685

<210> 10058

<211> 768

<212> PRT

<213> Enterobacter cloacae

<400> 10058

Pro Lys Arg Glu Arg Asn Asn Lys Met Asp Asp Gln Leu Lys Gln Ser
 1 5 10 15
 Ala Leu Asp Phe His Glu Phe Pro Val Pro Gly Lys Ile Gln Val Ser
 20 25 30
 Pro Thr Lys Pro Leu Ala Thr Gln Arg Asp Leu Ala Leu Tyr Ser
 35 40 45
 Pro Gly Val Ala Ala Pro Cys Leu Glu Ile Glu Lys Asp Pro Leu Ala
 50 55 60
 Ala Tyr Lys Tyr Thr Ala Arg Gly Asn Leu Val Ala Val Ile Ser Asn
 65 70 75 80
 Gly Thr Ala Val Leu Gly Leu Gly Asn Ile Gly Ala Leu Ala Gly Lys
 85 90 95
 Pro Val Met Glu Gly Lys Gly Val Leu Phe Lys Lys Phe Ala Gly Ile
 100 105 110
 Asp Val Phe Asp Ile Glu Val Asp Glu Leu Asp Pro Asp Lys Phe Ile
 115 120 125
 Asn Val Val Ala Ala Leu Glu Pro Thr Phe Gly Gly Ile Asn Leu Glu
 130 135 140
 Asp Ile Lys Ala Pro Glu Cys Phe Tyr Ile Glu Gln Lys Leu Arg Glu
 145 150 155 160

Arg Met Asn Ile Pro Val Phe His Asp Asp Gln His Gly Thr Ala Ile
 165 170 175
 Ile Ser Thr Ala Ala Ile Leu Asn Gly Leu Arg Val Val Glu Lys Asn
 180 185 190
 Leu Ser Asp Val Arg Met Val Val Ser Gly Ala Gly Ala Ala Ile
 195 200 205
 Ala Cys Met Asn Leu Leu Val Ala Leu Gly Met Gln Lys His Asn Ile
 210 215 220
 Val Val Cys Asp Ser Lys Gly Val Ile Tyr Lys Asp Arg Glu Pro Asn
 225 230 240
 Met Ala Glu Thr Lys Ala Ala Tyr Ala Val Glu Asp Asp Gly Lys Arg
 245 250 255
 Thr Leu Glu Asp Val Ile Glu Gly Ala Asp Ile Phe Leu Gly Cys Ser
 260 265 270
 Gly Pro Lys Val Leu Thr Gln Glu Met Val Gln Lys Met Ala Arg Ala
 275 280 285
 Pro Met Ile Leu Ala Leu Ala Asn Pro Glu Pro Glu Ile Leu Pro Pro
 290 295 300
 Leu Ala Lys Ala Val Arg Glu Asp Ala Ile Ile Cys Thr Gly Arg Ser
 305 310 315
 Asp Tyr Pro Asn Gln Val Asn Asn Val Leu Cys Phe Pro Phe Ile Phe
 325 330 335
 Arg Gly Ala Leu Asp Val Gly Ala Thr Ala Ile Asn Glu Glu Met Lys
 340 345 350
 Leu Ala Ala Val His Ala Ile Ala Glu Leu Ala His Ala Glu Gln Ser
 355 360 365
 Glu Val Val Ala Ser Ala Tyr Gly Asp Gln Asp Leu Ser Phe Gly Pro
 370 375 380
 Asp Tyr Ile Ile Pro Lys Pro Phe Asp Pro Arg Leu Ile Val Lys Ile
 385 390 395
 Ala Pro Ala Val Ala Lys Ala Ala Met Asp Ser Gly Val Ala Thr Arg
 405 410 415
 Pro Ile Glu Asp Phe Asp Ala Tyr Val Asp Lys Leu Thr Glu Phe Val
 420 425 430
 Tyr Lys Thr Asn Leu Phe Met Lys Pro Ile Phe Ser Gln Ala Arg Ala
 435 440 445
 Asp Ala Lys Arg Val Val Leu Ala Glu Gly Glu Glu Ala Arg Val Leu
 450 455 460
 His Ala Thr Gln Glu Leu Ile Thr Leu Gly Leu Ala Lys Pro Ile Leu
 465 470 475
 Ile Gly Arg Pro Ser Val Ile Glu Met Arg Ile Gln Lys Leu Gly Leu
 485 490 495
 Gln Ile Lys Pro Gly Val Asp Phe Glu Ile Val Asn Asn Glu Ser Asp
 500 505 510
 Pro Arg Phe Lys Glu Tyr Trp Asn Glu Tyr Tyr Ser Ile Met Lys Arg
 515 520 525
 Arg Gly Ile Thr Gln Glu Gln Ala Gln Arg Ala Val Ile Ser Asn Thr
 530 535 540
 Thr Val Ile Gly Ala Ile Met Val His Arg Gly Glu Ala Asp Ala Leu
 545 550 555
 Ile Cys Gly Thr Ile Gly Glu Tyr His Glu His Phe Ser Val Val Gln
 565 570 575
 Glu Ile Phe Gly Tyr Arg Glu Gly Val His Thr Ala Gly Ala Met Asn
 580 585 590
 Ala Leu Leu Leu Pro Ser Gly Asn Thr Phe Ile Ala Asp Thr Tyr Val
 595 600 605
 Asn Asp Asp Pro Ser Pro Glu Glu Leu Ala Glu Ile Thr Val Met Ala
 610 615 620
 Ala Glu Thr Val Arg Arg Phe Gly Ile Glu Pro Lys Val Ala Leu Leu
 625 630 635 640
 Ser His Ser Asn Phe Gly Ser Ser Lys Ser Ala Ala Ala Cys Lys Met

				645					650					655			
Arg	Gln	Thr	Leu	Asp	Leu	Val	Arg	Glu	Arg	Ala	Pro	Glu	Leu	Met	Ile		
			660					665					670				
Asp	Gly	Glu	Met	His	Gly	Asp	Ala	Ala	Leu	Val	Glu	Ser	Ile	Arg	Asn		
		675					680					685					
Glu	Arg	Met	Pro	Asp	Ser	Pro	Leu	Lys	Gly	Ser	Ala	Asn	Val	Leu	Ile		
	690					695					700						
Met	Pro	Asn	Val	Glu	Ala	Ala	Arg	Ile	Ser	Tyr	Asn	Leu	Leu	Arg	Val		
705				710					715					720			
Ser	Ser	Ser	Glu	Gly	Val	Thr	Val	Gly	Pro	Val	Leu	Met	Gly	Val	Ser		
			725					730					735				
Lys	Pro	Val	His	Val	Leu	Thr	Pro	Ile	Ala	Ser	Val	Arg	Arg	Ile	Val		
		740						745					750				
Asn	Met	Val	Ala	Leu	Ala	Val	Val	Glu	Ala	Gln	Thr	Gln	Pro	Leu			
		755					760					765					

<210> 10059

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 10059

His	Tyr	Ala	Lys	Phe	Trp	Arg	Val	Phe	Pro	Arg	Leu	Leu	Ala	Lys	Cys		
1			5					10						15			
Pro	Val	His	Ala	Ile	Ile	Thr	Val	Phe	Lys	Pro	Glu	Lys	Ala	Val	Asn		
		20						25				30					
Thr	Met	Glu	Ile	Arg	Val	Phe	Arg	Gln	Glu	Asp	Phe	Glu	Glu	Val	Ile		
	35					40					45						
Thr	Leu	Trp	Glu	Arg	Cys	Asp	Leu	Leu	Arg	Pro	Trp	Asn	Asp	Pro	Glu		
	50					55					60						
Met	Asp	Ile	Glu	Arg	Lys	Val	Asn	His	Asp	Val	Ser	Leu	Phe	Leu	Val		
65				70				75						80			
Ala	Glu	Val	Asn	Gly	Glu	Val	Val	Gly	Thr	Val	Met	Gly	Gly	Tyr	Asp		
			85					90						95			
Gly	His	Arg	Gly	Ser	Ala	Tyr	Tyr	Leu	Gly	Val	His	Pro	Glu	Tyr	Arg		
	100							105					110				
Ala	Arg	Gly	Ile	Ala	Asn	Ala	Leu	Leu	Asn	Arg	Leu	Glu	Lys	Lys	Leu		
	115						120					125					
Ile	Ala	Arg	Gly	Cys	Pro	Lys	Ile	Gln	Ile	Met	Val	Arg	Glu	Asp	Asn		
	130					135					140						
Asp	Val	Val	Leu	Gly	Met	Tyr	Glu	Arg	Leu	Gly	Tyr	Glu	His	Ala	Asp		
145				150				155						160			
Val	Leu	Thr	Leu	Gly	Lys	Arg	Leu	Ile	Glu	Asp	Glu	Glu	Tyr				
			165					170						175			

<210> 10060

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 10060

Pro	Pro	Ser	Met	Pro	Arg	Ser	Arg	Gly	Ile	Phe	Phe	Ser	Gly	Gly	Ala		
1			5					10						15			
Met	Ser	Gln	Val	Gln	Ser	Gly	Ile	Leu	Pro	Glu	His	Cys	Arg	Ala	Ala		
		20						25				30					
Ile	Trp	Ile	Glu	Ala	Asn	Val	Lys	Gly	Asp	Val	Asp	Ala	Leu	Arg	Ala		
	35					40					45						
Ala	Ser	Lys	Val	Phe	Val	Asp	Lys	Leu	Ala	Thr	Phe	Gln	Ala	Lys	Phe		
	50					55				60							
Pro	Glu	Ala	His	Leu	Gly	Ala	Val	Val	Ala	Phe	Gly	Asn	Thr	Val	Trp		
65				70				75						80			

Arg Gln Leu Ser Gly Gly Glu Gly Ala Lys Glu Leu Lys Asp Phe Ile
 85 90 95
 Pro Tyr Gly Lys Gly Leu Ala Pro Ala Thr Gln Tyr Asp Val Leu Ile
 100 105 110
 His Ile Leu Ser Leu Arg His Asp Val Asn Phe Ser Ile Ala Gln Ala
 115 120 125
 Ala Ile Glu Ala Phe Gly Asp Ser Ile Asp Val Gln Glu Glu Ile His
 130 135 140
 Gly Phe Arg Trp Val Glu Glu Arg Asp Leu Ser Gly Phe Val Asp Gly
 145 150 155 160
 Thr Glu Asn Pro Ala Gly Glu Glu Thr Arg Arg Glu Val Ala Val Ile
 165 170 175
 Lys Asp Gly Val Asp Ala Gly Gly Ser Tyr Val Phe Val Gln Arg Trp
 180 185 190
 Glu His Asn Leu Arg Gln Leu Asn Arg Met Ser Val His Asp Gln Glu
 195 200 205
 Met Met Ile Gly Arg Thr Lys Asp Ala Asn Glu Glu Ile Asp Gly Asp
 210 215 220
 Ala Arg Pro Val Thr Ser His Leu Ser Arg Val Asp Leu Lys Glu Asp
 225 230 235
 Gly Lys Gly Leu Lys Ile Val Arg Gln Ser Leu Pro Tyr Gly Thr Ala
 245 250 255
 Ser Gly Thr His Gly Leu Tyr Phe Cys Ala Tyr Cys Ala Arg Leu Tyr
 260 265 270
 Asn Ile Glu Gln Gln Leu Leu Ser Met Phe Gly Asp Thr Asp Gly Lys
 275 280 285
 Arg Asp Ala Met Leu Arg Phe Thr Arg Pro Val Thr Gly Tyr Tyr
 290 295 300
 Phe Ala Pro Ser Val Glu Arg Leu Leu Ala Leu
 305 310 315

<210> 10061

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 10061

Val Met Phe Ala Gly Ser Thr Arg Arg Val Leu Pro Gly Phe Thr Leu
 1 5 10 15
 Ser Leu Gly Thr Ser Leu Leu Phe Val Cys Leu Ile Leu Leu Pro
 20 25 30
 Leu Ser Ala Leu Val Met Gln Leu Ala Glu Met Ser Trp Ser Gln Tyr
 35 40 45
 Trp Glu Val Val Thr Asn Pro Gln Val Val Ala Ala Tyr Lys Val Thr
 50 55 60
 Leu Leu Ser Ala Phe Val Ala Ser Ile Phe Asn Gly Val Phe Gly Leu
 65 70 75 80
 Leu Met Ala Trp Ile Leu Thr Arg Tyr Arg Phe Pro Gly Arg Thr Leu
 85 90 95
 Leu Asp Ala Leu Met Asp Leu Pro Phe Ala Leu Pro Thr Ala Val Ala
 100 105 110
 Gly Leu Thr Leu Ala Ser Leu Phe Ser Val Asn Gly Phe Tyr Gly Glu
 115 120 125
 Trp Leu Ala Lys Phe Asp Ile Lys Val Thr Tyr Thr Trp Leu Gly Ile
 130 135 140
 Ala Val Ala Met Ala Phe Thr Ser Ile Pro Phe Val Val Arg Thr Val
 145 150 155 160
 Gln Pro Val Leu Glu Glu Leu Gly Pro Glu Tyr Glu Glu Ala Ala Glu
 165 170 175
 Thr Leu Gly Ala Thr Arg Trp Gln Ser Phe Arg Lys Val Val Leu Pro
 180 185 190

Glu Leu Ser Pro Ala Leu Leu Ala Gly Val Ala Leu Ser Phe Thr Arg
 195 200 205
 Ser Leu Gly Glu Phe Gly Ala Val Ile Phe Ile Ala Gly Asn Ile Ala
 210 215 220
 Trp Lys Thr Glu Val Thr Ser Leu Met Ile Phe Val Arg Leu Gln Glu
 225 230 235 240
 Phe Asp Tyr Pro Ala Ala Ser Ala Ile Ala Ser Val Ile Leu Ala Ala
 245 250 255
 Ser Leu Leu Leu Leu Phe Ser Ile Asn Thr Leu Gln Ser Arg Phe Gly
 260 265 270
 Arg Arg Val Val Gly His
 275

<210> 10062

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 10062

Arg Ile Arg Lys Asn Val Ser Ile Arg Arg Glu Ile Met Ser Ile Glu
 1 5 10 15
 Ile Ala Asn Ile Lys Lys Ser Phe Gly Arg Thr Gln Val Leu Asn Asp
 20 25 30
 Ile Ser Leu Asp Ile Pro Ser Gly Gln Met Val Ala Leu Leu Gly Pro
 35 40 45
 Ser Gly Ser Gly Lys Thr Thr Leu Leu Arg Ile Ile Ala Gly Leu Glu
 50 55 60
 His Gln Thr Ser Gly His Ile Arg Phe His Gly Thr Asp Val Ser Arg
 65 70 75 80
 Leu His Ala Arg Asp Arg Lys Val Gly Phe Val Phe Gln His Tyr Ala
 85 90 95
 Leu Phe Arg His Met Thr Val Phe Asp Asn Ile Ala Phe Gly Leu Thr
 100 105 110
 Val Leu Pro Arg Arg Glu Arg Pro Asp Ala Ala Ala Ile Lys Ala Lys
 115 120 125
 Val Thr Lys Leu Leu Glu Met Val Gln Leu Ala His Leu Ala Asp Arg
 130 135 140
 Phe Pro Ala Gln Leu Ser Gly Gly Gln Lys Gln Arg Val Ala Leu Ala
 145 150 155 160
 Arg Ala Leu Ala Val Glu Pro Gln Ile Leu Leu Leu Asp Glu Pro Phe
 165 170 175
 Gly Ala Leu Asp Ala Gln Val Arg Lys Glu Leu Arg Arg Trp Leu Arg
 180 185 190
 Gln Leu His Glu Glu Leu Gln Phe Thr Ser Val Phe Val Thr His Asp
 195 200 205
 Gln Glu Glu Ala Met Glu Val Ala Asp Arg Val Val Val Met Ser Gln
 210 215 220
 Gly Asn Ile Glu Gln Val Asp Glu Pro Glu Gln Leu Trp Arg Glu Pro
 225 230 235 240
 Ala Thr Arg Phe Val Leu Glu Phe Met Gly Glu Val Asn Arg Leu Gln
 245 250 255
 Gly Thr Ile Arg Gly Gly Gln Phe His Val Gly Ala His Arg Trp Pro
 260 265 270
 Leu Gly Tyr Thr Ser Ala His Gln Gly Pro Val Asp Leu Phe Leu Arg
 275 280 285
 Pro Trp Glu Val Asp Val Ser Arg Arg Thr Ser Leu Asp Ser Pro Leu
 290 295 300
 Pro Val Gln Val Leu Glu Ala Ser Pro Lys Gly His Tyr Thr Gln Leu
 305 310 315 320
 Val Val Gln Pro Leu Gly Trp Tyr Thr Glu Pro Leu Thr Val Val Met
 325 330 335

Arg Asp Asp Glu Pro Pro His Arg Gly Glu Arg Leu Phe Val Gly Leu
 340 345 350
 Gln His Ala Arg Ile Tyr His Gly Asn Glu Arg Ile Glu Thr Arg Glu
 355 360 365
 Asp Ile Ala Leu Ala Glu Ser Ala
 370 375

<210> 10063

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 10063

Arg Glu Leu Phe Ala Gly Gly Gly Asp Leu Ser Val Met Glu Met Ile
 1 5 10 15
 Leu Phe Arg Asp Asn Thr Arg Ala Gln Thr Asp Ile Val Ala Val
 20 25 30
 Gln Ser Gln Val Val Tyr Gly Ser Val Gly Asn Ser Ile Ala Val Pro
 35 40 45
 Asn Ile Arg Thr His Arg Leu Asn Val Thr Ala Val Pro Thr Val Leu
 50 55 60
 Phe Ser Asn Thr Pro His Tyr Asp Thr Phe Tyr Gly Gly Val Ile Pro
 65 70 75 80
 Asp Glu Trp Phe Ser Gly Tyr Leu Lys Ala Leu Glu Glu Arg Glu Ile
 85 90 95
 Leu Arg Glu Leu Lys Ala Val Thr Thr Gly Tyr Met Gly Ser Ala Ser
 100 105 110
 Gln Ile Val Leu Leu Ala Gln Trp Leu Lys Ala Ile Lys Val Gln His
 115 120 125
 Pro Asp Leu Leu Val Leu Val Asp Pro Val Ile Gly Asp Ile Asp Ser
 130 135 140
 Gly Met Tyr Val Lys Pro Asp Ile Pro Glu Ala Tyr Arg Glu His Leu
 145 150 155 160
 Leu Pro Leu Ala Gln Gly Ile Thr Pro Asn Val Tyr Glu Leu Glu Val
 165 170 175
 Leu Ser Gly Lys Pro Cys Arg Thr Pro Glu Ser Ala Ile Ala Ala Ala
 180 185 190
 Gln Gly Leu Leu Ser Asn Ser Leu Lys Trp Val Ala Ile Thr Ser Ala
 195 200 205
 Pro Val Ala Asp Asp Pro Gln Asn Ile His Val Val Leu Val Ser Glu
 210 215 220
 Gly Gly Val Thr Val Ser Ala His Pro Arg Val Glu Thr Asp Leu Lys
 225 230 235 240
 Gly Thr Gly Asp Leu Phe Cys Ser Glu Leu Val Ser Gly Ile Val Gly
 245 250 255
 Gly Lys Thr Val Ala Asp Ala Ile Arg Met Ala Gly Asp Arg Val Thr
 260 265 270
 Asp Val Met Ile Tyr Thr Gln Ser Lys Gly Tyr Asp Glu Leu Ile Leu
 275 280 285
 Pro Ala
 290

<210> 10064

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10064

Thr Asn Ser Ser Ile Pro Leu Ser Asp Ser Ile Glu Asn Ala Trp Leu
 1 5 10 15
 Val Ser Lys Ile Leu Pro Met Val Pro Ser Thr Gly Ala Thr Ile Leu


```
<210> 10065
<211> 425
<212> PRT
<213> Enterobacter cloacae
```

<400>	10065															
Thr	Thr	Gln	Met	Ala	Leu	Ser	Gln	Leu	Pro	Asp	Lys	Gly	Ser	Gly	Ala	
1			5						10					15		
Ala	Ser	Pro	Ala	Ala	Ser	Cys	Pro	Ala	Ala	Thr	Ile	Thr	Gly	Ile	Lys	
			20					25					30			
Ile	Met	Ser	Leu	Gln	Lys	Thr	Trp	Gly	Asn	Phe	His	Leu	Ser	Ala	Met	
		35					40					45				
Gly	Val	Val	Leu	Leu	Ser	Val	Leu	Leu	Val	Gly	Cys	Asp	Asp	Ser	Val	
	50					55					60					
Ala	Gln	Asn	Ala	Ala	Pro	Gln	Ala	Pro	Val	Val	Ser	Ala	Ala	Asp	Val	
65					70					75					80	
Val	Val	Lys	Ser	Ile	Ser	Gln	Trp	Asp	Ser	Phe	Asn	Gly	Arg	Ile	Glu	
				85					90					95		
Ala	Val	Glu	Ser	Val	Gln	Leu	Arg	Pro	Arg	Val	Ser	Gly	Tyr	Ile	Glu	
			100					105					110			
Lys	Val	Asn	Tyr	Thr	Asp	Gly	Gln	Glu	Val	Lys	Lys	Gly	Glu	Val	Leu	
		115					120					125				
Phe	Thr	Ile	Asp	Asp	Arg	Thr	Tyr	Arg	Ala	Ala	Leu	Glu	Gln	Ala	Gln	
	130					135					140					
Ala	Asn	Leu	Ala	Arg	Ala	Lys	Thr	Gln	Ala	Ser	Leu	Ala	Gln	Ser	Glu	
145					150					155					160	
Ala	Asn	Arg	Thr	Asp	Lys	Leu	Ile	Asn	Thr	His	Leu	Val	Ser	Arg	Glu	
				165				170						175		
Glu	Trp	Glu	Gln	Arg	Arg	Ser	Ala	Ala	Val	Gln	Ala	Gln	Ala	Asp	Ile	
				180				185					190			
Arg	Ala	Ala	Gln	Ala	Ala	Val	Asp	Ala	Ala	Gln	Leu	Asn	Leu	Asp	Phe	
	195					200						205				
Thr	Lys	Val	Thr	Ala	Pro	Ile	Asp	Gly	Arg	Ala	Ser	Arg	Ala	Leu	Ile	
	210					215					220					
Thr	Ser	Gly	Asn	Leu	Val	Thr	Ala	Gly	Asp	Ser	Ala	Ser	Val	Leu	Thr	
225					230					235				240		
Thr	Leu	Val	Ser	Gln	Lys	Thr	Val	Tyr	Val	Tyr	Phe	Asp	Val	Asp	Glu	
				245				250					255			
Ser	Thr	Tyr	Leu	His	Tyr	Gln	Lys	Leu	Ala	Arg	Ser	Gly	Gln	Gly	Ala	
		260						265					270			
Ser	Ser	Asn	His	Thr	Ala	Leu	Pro	Val	Glu	Ile	Gly	Leu	Thr	Gly	Glu	
		275					280					285				
Glu	Gly	Tyr	Pro	His	Gln	Gly	Lys	Val	Asp	Phe	Leu	Asp	Asn	Gln	Leu	
	290					295					300					
Thr	Pro	Gly	Thr	Gly	Thr	Ile	Arg	Met	Arg	Ala	Leu	Leu	Asp	Asn	Ser	
305					310					315					320	
Gln	Arg	Gln	Phe	Thr	Pro	Gly	Leu	Phe	Ala	Arg	Val	Arg	Leu	Pro	Gly	
				325				330					335			
Ser	Ala	Glu	Phe	Lys	Ala	Thr	Leu	Val	Asp	Asp	Lys	Ala	Val	Leu	Thr	
			340					345					350			

```
<210> 10066
<211> 793
<212> PRT
<213> Enterobacter cloacae
```

<400> 10066																
Val	Asn	Arg	Ile	Pro	Ser	Leu	Ile	Phe	Lys	Ile	Pro	Pro	Pro	Leu	Cys	
1				5					10					15		
Leu	Pro	Gly	Ile	Phe	Arg	Ala	Thr	Cys	Thr	Ser	Gly	Trp	Met	Pro	Val	
			20					25					30			
Phe	Leu	Tyr	Pro	Leu	Glu	Arg	Lys	Gly	Cys	Lys	Arg	Ala	Ser	Met	Asn	
			35				40					45				
Ile	His	His	Ile	Leu	Lys	Gln	Asn	Lys	Asp	Arg	Trp	Trp	Ala	Leu	Pro	
	50					55					60					
Leu	Ile	Leu	Pro	Val	Val	Leu	Pro	Val	Leu	Ser	Val	Ala	Asn	Thr		
65					70					75				80		
Leu	Thr	Gln	Leu	Gly	Asp	Gly	Ile	Val	Ala	Leu	Tyr	Tyr	Leu	Pro	Leu	
				85					90					95		
Ser	Phe	Leu	Leu	Ala	Leu	Met	Leu	Phe	Phe	Gly	Leu	Glu	Ala	Leu	Pro	
			100					105					110			
Gly	Val	Val	Val	Ser	Leu	Phe	Leu	Arg	Tyr	Tyr	Pro	Ser	Val	Gly	Leu	
			115				120					125				
Phe	Glu	Thr	Val	Ala	Gly	Ile	Leu	His	Phe	Ile	Val	Pro	Leu	Val	Leu	
	130					135					140					
Ser	Trp	Gly	Gly	Tyr	Arg	Val	Phe	Ala	Pro	Arg	Arg	Asn	Met	Thr	Ala	
145					150					155					160	
Tyr	Gly	Asp	Ile	Arg	Leu	Met	Gly	Gln	Arg	Ile	Phe	Trp	Gln	Val	Phe	
				165					170					175		
Cys	Pro	Ala	Thr	Leu	Phe	Leu	Val	Leu	Phe	Gln	Phe	Ala	Val	Tyr	Leu	
			180					185					190			
Gly	Ile	Tyr	Glu	Ser	Arg	Gln	Ser	Leu	Ala	Gly	Leu	Asn	Pro	Leu	Asn	
			195				200					205				
Ile	Arg	Thr	Leu	Ile	Asn	Tyr	Gln	Gly	Leu	Leu	Val	Ser	Gly	Leu	Thr	
	210					215					220					
Gly	Val	Pro	Leu	Ser	Tyr	Leu	Leu	Ile	Arg	Leu	Ile	Arg	His	Pro	Arg	
225					230					235				240		
Tyr	Ile	Lys	Gly	Leu	Met	Ser	Gln	Leu	Arg	Ala	Gln	Ile	Asp	Lys	Lys	
				245					250					255		
Val	Thr	Ala	Val	Glu	Phe	Val	Val	Trp	Phe	Leu	Ala	Leu	Gly	Gly	Leu	
			260					265					270			
Leu	Val	Met	Leu	Leu	Leu	Pro	Met	Asn	Ala	Asn	Ser	Ser	Ile	Phe	Ser	
			275				280					285				
Thr	Asn	Tyr	Thr	Leu	Ser	Leu	Leu	Met	Pro	Val	Met	Leu	Trp	Gly	Ala	
	290					295					300					
Met	Arg	Phe	Gly	Tyr	Lys	Leu	Met	Ser	Leu	Ile	Trp	Thr	Pro	Val	Leu	
305					310					315					320	
Leu	Val	Ser	Ile	His	Phe	Phe	Tyr	His	Tyr	Ile	Pro	Val	Gln	Glu	Gly	
				325					330					335		
Tyr	Gly	Ile	G													

```

      355              360              365
Asn Ile Arg Ser Arg Ser Gln Ala Phe Leu Asp Pro Val Val His Met
  370              375              380
Pro Asn Leu Arg Ala Leu Ser Arg Glu Leu Ala Ser His Pro Trp Ser
 385              390              395              400
Ala Leu Cys Leu Leu Arg Val Pro Glu Leu Glu Val Leu Gly Arg Asn
      405              410              415
Tyr Gly Val Met Leu Arg Ile Gln Tyr Lys Gln Gln Leu Ala Gln Trp
      420              425              430
Ile Asn Gly Thr Leu Gln Pro Asn Glu Arg Val Tyr His Leu Thr Gly
      435              440              445
Tyr Asp Met Ala Val Arg Leu Asp Ala Glu Ser His Gln Gln Arg Ile
      450              455              460
Glu Thr Leu Asp Glu His Ile Lys Gln Phe Val Phe Val Trp Asp Gly
 465              470              475              480
Met Pro Val Gln Pro Gln Val Gly Ile Ser Tyr Cys Tyr Val Arg Ser
      485              490              495
Pro Val Asn His Leu Tyr Leu Val Leu Gly Glu Leu Gly Ile Val Ala
      500              505              510
Asp Leu Ser Leu Ser Thr Asn His Pro Glu Asn Leu Gln Gln Arg Gly
      515              520              525
Ala Val His Leu Gln Arg Ser Leu Lys Asp Lys Val Ala Met Met Ser
 530              535              540
Arg Leu Gln Ala Ala Leu Glu Gln Asp Ala Phe Thr Leu Leu Val Gln
 545              550              555              560
Pro Val Arg Gly Leu Arg Gly Asp Cys Tyr His Glu Val Leu Leu Arg
      565              570              575
Met Arg Asp Asp Asn Gly Ala Leu Ile Phe Pro Glu Gln Phe Leu Pro
      580              585              590
Ile Ala Gln Glu Phe Gly Leu Ser Arg Val Asp Leu Trp Val Leu
      595              600              605
Glu Arg Thr Leu Ser Phe Leu Ala Gln His Arg Gln Arg Leu Pro Gly
 610              615              620
Gln Arg Phe Ala Ile Asn Leu Ala Pro Ser Thr Val Tyr Arg Ala Gln
 625              630              635              640
Phe Pro Leu Glu Val Ser Arg Leu Leu Ala Lys Tyr Ala Val Glu Ala
      645              650              655
Trp Gln Leu Ile Phe Glu Val Thr Glu Ser Ser Ala Phe Gly His Ala
      660              665              670
Asp Leu Ala Ala Ser Thr Leu Arg Lys Leu Gln Lys Met Gly Ile Arg
      675              680              685
Ile Ala Ile Asp Asp Phe Gly Thr Gly Tyr Ala Ser Tyr Ala Arg Leu
 690              695              700
Lys Ser Val Asp Ala Asp Ile Leu Lys Ile Asp Gly Gly Phe Ile Arg
 705              710              715              720
Asn Ile Val Ser Asn Ser Leu Asp Tyr Gln Ile Val Ala Ser Ile Cys
      725              730              735
His Leu Ala Arg Met Lys Lys Met Leu Val Val Ala Glu Tyr Val Glu
      740              745              750
Thr Glu Glu Ile Arg Ser Ala Val His Ala Leu Gly Ile Asp Tyr Val
      755              760              765
Gln Gly Tyr Leu Ile Gly Leu Pro Ala Glu Leu Asp Thr Leu Leu Asp
 770              775              780
Thr Glu Pro Ser Gln Glu Ser Ala
785              790

```

<210> 10067

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 10067

Arg	Met	Ser	Gly	Phe	Lys	Ala	Gly	Phe	Leu	Trp	Gly	Gly	Ala	Val	Ala
1				5					10					15	
Ala	His	Gln	Leu	Glu	Gly	Gly	Trp	Lys	Glu	Gly	Gly	Lys	Gly	Val	Ser
		20						25					30		
Val	Ala	Asp	Val	Met	Thr	Ala	Gly	Ala	His	Gly	Val	Pro	Arg	Glu	Ile
		35					40					45			
Thr	Asn	Gly	Val	Met	Glu	Gly	Lys	Asn	Tyr	Pro	Asn	His	Glu	Ala	Ile
	50				55					60					
Asp	Phe	Tyr	His	Arg	Tyr	Lys	Glu	Asp	Ile	Lys	Leu	Phe	Ala	Glu	Met
65				70					75					80	
Gly	Phe	Lys	Cys	Phe	Arg	Thr	Ser	Ile	Ala	Trp	Thr	Arg	Ile	Phe	Pro
			85					90					95		
Lys	Gly	Asp	Glu	Leu	Glu	Pro	Asn	Glu	Ala	Gly	Leu	Gln	Phe	Tyr	Asp
		100						105					110		
Asp	Leu	Phe	Asp	Glu	Cys	Leu	Lys	His	Gly	Ile	Glu	Pro	Val	Ile	Thr
		115					120					125			
Leu	Ser	His	Phe	Glu	Met	Pro	Phe	His	Leu	Val	Thr	Glu	Tyr	Gly	Gly
	130				135						140				
Trp	Arg	Asn	Arg	Lys	Leu	Ile	Asp	Phe	Phe	Val	Arg	Phe	Ala	Lys	Val
145				150					155					160	
Val	Phe	Glu	Arg	Tyr	Gln	His	Lys	Val	Lys	Tyr	Trp	Met	Thr	Phe	Asn
			165					170					175		
Glu	Ile	Asn	Asn	Gln	Ala	Asn	Phe	His	Glu	Asp	Phe	Ala	Pro	Phe	Thr
		180					185					190			
Asn	Ser	Gly	Leu	Lys	Tyr	Ala	Pro	Gly	Glu	Asp	Arg	Glu	Pro	Val	Met
	195						200					205			
Phe	Gln	Ala	Ala	His	Tyr	Glu	Leu	Val	Ala	Ser	Ala	Leu	Ala	Val	Lys
	210				215				220						
Ala	Gly	Arg	Glu	Ile	Asn	Pro	Ser	Leu	Gln	Ile	Gly	Cys	Met	Ile	Ala
225				230					235					240	
Met	Cys	Pro	Ile	Tyr	Pro	Leu	Thr	Cys	Ala	Pro	Asp	Asp	Met	Met	Met
			245					250					255		
Ala	Met	Asn	Ala	Met	His	Arg	Arg	Tyr	Trp	Phe	Thr	Asp	Val	His	Val
		260					265						270		
Arg	Gly	Lys	Tyr	Pro	Gln	His	Leu	Leu	Asn	Tyr	Phe	Glu	Arg	Arg	Gly
		275					280					285			
Phe	Ala	Leu	Asp	Ile	Thr	Glu	Glu	Asp	Lys	Val	Ala	Leu	Thr	Gln	Gly
	290				295					300					
Cys	Val	Asp	Tyr	Ile	Gly	Phe	Ser	Tyr	Tyr	Met	Ser	Phe	Ala	Thr	Lys
305				310					315					320	
Ala	Thr	Ala	Asp	Asn	Pro	Thr	Leu	Asp	Tyr	Asp	Glu	Ser	Lys	Ser	Leu
			325					330					335		
Val	Ser	Asn	Pro	Tyr	Val	Gln	Lys	Ser	Asp	Trp	Gly	Trp	Gln	Ile	Asp
		340						345					350		
Pro	Val	Gly	Leu	Arg	Tyr	Ser	Leu	Asn	Trp	Phe	Trp	Asp	His	Tyr	Gln
		355					360					365			
Leu	Pro	Leu	Phe	Ile	Val	Glu	Asn	Gly	Phe	Gly	Ala	Ile	Asp	Val	Gln
	370				375						380				
Glu	Ser	Asp	Gly	Thr	Val	Asn	Asp	Gln	Tyr	Arg	Ile	Asp	Tyr	Leu	Ser
385				390					395					400	
Ala	His	Ile	Arg	Glu	Met	Lys	Lys	Ala	Val	Val	Glu	Asp	Gly	Val	Asp
			405					410					415		
Leu	Met	Gly	Tyr	Thr	Pro	Trp	Gly	Cys	Ile	Asp	Leu	Val	Ser	Ala	Gly
		420					425						430		
Thr	Gly	Glu	Met	Lys	Lys	Arg	Tyr	Gly	Phe	Ile	Phe	Val	Asp	Lys	Asp
		435					440					445			
Asn	Glu	Gly	Asn	Gly	Thr	Leu	Asn	Arg	Ser	Lys	Lys	Lys	Ser	Phe	Asp
	450				455						460				
Trp	Tyr	Lys	Gln	Val	Ile	Ala	Ser	Asn	Gly	Glu	Gln	Leu			
465				470						475					

<210> 10068
 <211> 297
 <212> PRT
 <213> Enterobacter cloacae

<400> 10068
 Asn Arg Ser Gln Ser Ile Arg Cys Ser Asp Ile Asn Leu Ile Arg Leu
 1 5 10 15
 Val Ala Glu Arg Asp Ala Met Glu Ile Lys Leu His Ala Asn Ala Thr
 20 25 30
 Thr Thr Pro Arg Ile Arg Arg Tyr Leu Gln Gln Ser Asp Lys Ser Asp
 35 40 45
 Arg Glu Leu Ala Val Glu Leu Gly Ile Ser Val Thr Thr Val Arg Arg
 50 55 60
 Trp Arg Asn Arg Asp Gln Val Ser Asp Asn His Thr Thr Pro Lys Val
 65 70 75 80
 Ile His Lys Ala Leu Arg Gln Glu Gln Ala Ala Leu Ile Asn Ala Leu
 85 90 95
 Arg Asp Ile Thr Gly Ala Pro Leu Asp Glu Leu Leu Leu Leu Val Asn
 100 105 110
 Asp Gly Leu Gly Ile Ala Val Ser Arg Ala Thr Leu Asn Arg Tyr Leu
 115 120 125
 Lys Pro Ala Ser Val Arg Gln Lys Gly Ala Ser Leu Gln Gly Lys Lys
 130 135 140
 Ala Leu Lys Ala Gly Ile Met Pro Gln Lys Leu Leu His His Gln
 145 150 155 160
 Pro Leu Ser Leu His Met Asp Asp Gly Gly Glu Gln His Leu Leu Trp
 165 170 175
 Ala Arg Glu Pro Val Ser Gly Trp Cys Tyr Ala Arg Leu Tyr Ala Gly
 180 185 190
 Val Ser Pro Gln Leu Leu Thr Arg Trp Thr Asn Glu Val Leu Ala Ala
 195 200 205
 Cys Pro Ala Asp Ile Gln Ser Val Glu Thr Phe Gly Leu Ala Val Asn
 210 215 220
 Leu Pro Glu His Asn Val Thr Val Lys Val His Ser Gln Tyr Tyr Leu
 225 230 235 240
 Ala Leu Gln Val Thr Val Pro Leu Arg Glu Ile Ile Pro Arg Val Asn
 245 250 255
 Ser Glu Pro Ala Gly Ala Leu Leu Ile Gln Leu Cys Glu Phe Tyr Asn
 260 265 270
 Arg Gly Lys Ala Gln Lys Lys Leu Gly Glu Arg Thr Pro Gln Ala Phe
 275 280 285
 Leu Lys Ala Leu Arg Arg Asn Asp
 290 295

<210> 10069
 <211> 302
 <212> PRT
 <213> Enterobacter cloacae

<400> 10069
 Gly Ser Cys Ser His Arg Gly Trp Leu Met Phe Thr Gly Ser Ile Val
 1 5 10 15
 Ala Leu Val Thr Pro Met Asp Glu Lys Gly Asn Val Cys Arg Ser Ser
 20 25 30
 Met Lys Lys Leu Ile Asp Tyr His Val Ala Asn Gly Thr Ser Ala Ile
 35 40 45
 Val Ser Val Gly Thr Thr Gly Glu Ser Ala Thr Leu Ser His Glu Glu
 50 55 60
 His Gly Asp Val Val Met Leu Thr Leu Glu Leu Ala Asp Gly Arg Ile

```

65          70          75          80
Pro Val Ile Ala Gly Thr Gly Ala Asn Ala Thr Ala Glu Ala Ile Ser
      85          90
Leu Thr Gln Arg Phe Asn Asp Ser Gly Ile Val Gly Cys Leu Thr Val
      100          105          110
Thr Pro Tyr Tyr Asn Arg Pro Thr Gln Glu Gly Leu Phe Gln His Phe
      115          120          125
Lys Ala Ile Ala Glu His Thr Asp Leu Pro Gln Ile Leu Tyr Asn Val
      130          135          140
Pro Ser Arg Thr Gly Cys Asp Met Leu Pro Glu Thr Val Gly Arg Leu
145          150          155          160
Ser Lys Val Lys Asn Ile Ile Gly Ile Lys Glu Ala Thr Gly Asn Leu
      165          170          175
Ser Arg Val His Gln Ile Lys Glu Leu Val Ser Asp Asp Phe Ile Leu
      180          185          190
Leu Ser Gly Asp Asp Ala Thr Ala Leu Asp Phe Met Gln Leu Gly Gly
      195          200          205
Asn Gly Val Ile Ser Val Thr Ala Asn Val Ala Ala Arg Asp Met Ala
      210          215          220
Asp Met Cys Lys Leu Ala Ala Gly His Phe Asp Glu Ala Arg Val
225          230          235          240
Ile Asn Gln Arg Leu Met Pro Leu His Asn Lys Leu Phe Val Glu Pro
      245          250          255
Asn Pro Ile Pro Val Lys Trp Ala Cys Lys Glu Leu Gly Leu Val Ala
      260          265          270
Thr Asp Thr Leu Arg Leu Pro Met Thr Pro Ile Thr Asp His Gly Arg
      275          280          285
Glu Ile Val Ala Gly Ala Leu Lys His Ala Gly Leu Leu
      290          295          300

```

<210> 10070

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10070

```

Ser Trp Arg Leu Gly Leu Ile Arg Thr Pro Cys Arg Gly Phe Arg Arg
1          5          10          15
Arg Ala Ser Thr Pro Thr Thr Gly Gly Ala Ser Arg Pro Pro Trp Arg
      20          25          30
Ala Val Ile Ala Thr Arg Pro Arg Ile Arg Arg Phe Leu Leu Ala Val
      35          40          45
Met Arg Tyr Ala Val Arg Ile Trp Trp Ser Pro Arg Trp Arg Lys Gly
      50          55          60
Ala Met Pro Arg Arg Gly Ser Trp Thr Gly Leu Ala Cys Arg Arg Ala
      65          70          75          80
Thr Cys Ile Asn Ala Asp Gly Arg Gln Ser Gly Leu His Gly Val Val
      85          90          95

```

<210> 10071

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 10071

```

Thr Asp Ser Phe Cys Arg Gly Ala Arg Met Ser Pro Asn Ile Ser Val
1          5          10          15
Ile Lys Asp Lys Ile Leu Ser Glu Asn Tyr Phe Val Leu Arg Asn Ile
      20          25          30

```

Thr Tyr Asp Leu Thr Arg Lys Asn Gly Asp Val Ile Arg His Lys Arg
 35 40 45
 Glu Val Tyr Asp Arg Gly Asn Gly Ala Thr Ile Leu Tyr Asn Arg
 50 55 60
 Glu Lys Gln Ser Val Val Leu Ile Arg Gln Phe Arg Ile Ala Thr Trp
 65 70 75 80
 Val Asn Gly Asn Ala Asp Gly Arg Leu Ile Glu Thr Cys Ala Gly Leu
 85 90 95
 Leu Asp Asp Asp Glu Pro Glu Val Cys Ile Arg Lys Glu Ala Ile Glu
 100 105 110
 Glu Thr Gly Phe Glu Val Gly Thr Val Gln Lys Val Phe Glu Leu Phe
 115 120 125
 Met Ser Pro Gly Gly Val Thr Glu Leu Ile His Phe Phe Ile Ala Glu
 130 135 140
 Tyr Thr Asp Ala Gln Arg Thr His Arg Gly Gly Gly Val Asp Asp Glu
 145 150 155 160
 Asp Ile Glu Val Leu Glu Met Pro Phe Ala Lys Ala Val Asp Met Val
 165 170 175
 Lys Arg Gly Glu Ile Arg Asp Gly Lys Ala Val Ile Leu Leu Gln Tyr
 180 185 190
 Leu Gln Thr Ser Gly Leu Met Asn Ala Ala Glu Ala Arg
 195 200 205

<210> 10072

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 10072

Ser Lys Met Lys Ser Thr Glu Phe His Pro Gly Asp Tyr Asp Val His
 1 5 10 15
 Gly Arg Leu Arg Leu Pro Phe Leu Phe Trp Cys Val Leu Leu Leu Gln
 20 25 30
 Ala Arg Thr Trp Val Leu Phe Val Met Ala Gly Ala Ser Arg Gly Gln
 35 40 45
 Gly Asp Thr Leu Leu Asn Leu Phe Tyr Pro Asp His Asp Ala Phe Trp
 50 55 60
 Leu Gly Leu Leu Pro Gly Val Pro Ala Val Leu Ala Phe Leu Cys Ser
 65 70 75 80
 Gly Arg Arg Gln Phe Leu Pro Arg Phe Trp Arg Ala Leu Arg Trp Leu
 85 90 95
 Leu Ile Leu Ala Gln Val Val Leu Leu Val Trp Gln Pro Val Leu Trp
 100 105 110
 Leu Tyr Gly Glu Pro Leu Ser Gly Ile Gly Ile Ala Leu Val Val Ala
 115 120 125
 Asp Ile Val Ala Leu Leu Trp Leu Val Thr Asn Pro Arg Leu Arg Ala
 130 135 140
 Cys Phe Met Gln Glu Ser Asp
 145 150

<210> 10073

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 10073

Asn Gly Thr Phe Cys Arg Tyr Cys Thr Pro Thr Ser Val Asp Leu Leu
 1 5 10 15
 Arg Lys Asp Val Ser Met Lys Ser Leu Arg Leu Leu Leu Cys Ala Leu
 20 25 30
 Pro Leu Ala Leu Thr Gly Cys Ser Thr Leu Ser Ser Ile Asn Trp Ser

35 40 45
 Ala Ala Tyr Pro Trp Asn Trp Phe Gly Ser Ser Thr Glu Val Thr Glu
 50 55 60
 Gln Gly Val Gly Lys Ile Thr Ala Ser Thr Ala Leu Asp Gln Asp Ala
 65 70 75 80
 Ile Gln Asp Ala Ile Gly Ser Asp Tyr Arg Leu Arg Ser Gly Met Lys
 85 90 95
 Thr Glu Asn Gly Asn Ile Val Arg Tyr Phe Glu Ala Leu Lys Asp Asp
 100 105 110
 Lys Val Ala Met Val Ile Asn Gly Asp Lys Gly Thr Val Asn Arg Ile
 115 120 125
 Ala Val Met Asp Glu Glu Ile Pro Thr Ser Gly Gly Val Lys Val Gly
 130 135 140
 Thr Pro Phe Gly Glu Leu Tyr Gln Lys Ala Phe Gly His Cys Ala Ser
 145 150 155 160
 Val Pro Ser Glu Glu Ser Val Ala Val Glu Cys Lys Ala Asp Gly Ser
 165 170 175
 Gln His Ile Ser Tyr Val Phe Ser Gly Thr Trp Asn Gly Pro Glu Gly
 180 185 190
 Leu Met Pro Ser Asp Asp Thr Leu Lys Lys Trp Lys Val Ser Lys Ile
 195 200 205
 Ile Trp Lys Gln
 210

<210> 10074

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 10074

Gly Cys Ala Met Ala Val Thr Val Leu Lys Lys Gly Ser Leu Ala Leu
 1 5 10 15
 Ala Gly Leu Leu Val Ala Gln Ala Gln Ala Thr Glu Leu Leu Asn
 20 25 30
 Ser Ser Tyr Asp Val Ser Arg Glu Leu Phe Ala Ala Leu Asn Pro Ala
 35 40 45
 Phe Glu Gln Gln Trp Ala Lys Glu Asn Asn Gly Asp Lys Leu Thr Ile
 50 55 60
 Lys Gln Ser His Ala Gly Ser Ser Lys Gln Ala Leu Ala Ile Leu Gln
 65 70 75 80
 Gly Leu Lys Ala Asp Val Val Thr Tyr Asn Gln Val Thr Asp Val Gln
 85 90 95
 Ile Leu His Asp Lys Gly Lys Leu Ile Pro Ala Asn Trp Gln Ser Arg
 100 105 110
 Leu Pro Asn Asn Ser Ser Pro Phe Tyr Ser Thr Met Gly Phe Leu Val
 115 120 125
 Arg Lys Gly Asn Pro Lys Asn Ile His Asp Trp Asn Asp Leu Val Arg
 130 135 140
 Ser Asp Val Lys Leu Ile Phe Pro Asn Pro Lys Thr Ser Gly Asn Ala
 145 150 155 160
 Arg Tyr Thr Tyr Leu Ala Ala Trp Gly Ala Ala Asp Lys Ala Asp Gly
 165 170 175
 Asn Asp Lys Ala Lys Thr Glu Gln Phe Met Thr Gln Phe Leu Lys Asn
 180 185 190
 Val Glu Val Phe Asp Thr Gly Gly Arg Gly Ala Thr Thr Thr Phe Ala
 195 200 205
 Glu Arg Gly Leu Gly Asp Val Leu Ile Ser Phe Glu Ser Glu Val Asn
 210 215 220
 Asn Ile Arg Lys Gln Tyr Glu Ala Gln Gly Phe Glu Val Val Ile Pro
 225 230 235 240
 Lys Thr Asn Ile Leu Ala Glu Phe Pro Val Ala Trp Val Asp Lys Asn

[illegible]

```
<210> 10075
<211> 307
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

<210> 10076
 <211> 241
 <212> PRT
 <213> Enterobacter cloacae

<400> 10076

```

Leu Met Tyr Val Lys Gln Asp Gly Tyr Gly Ala Ile Arg Lys Lys Arg
1      5      10      15
Tyr Asn Pro Ala Ile Phe Leu Arg Met Pro Pro Gln Arg Arg Lys Arg
      20      25      30
Met Lys Ile Val Glu Val Lys His Pro Leu Val Lys His Lys Leu Gly
      35      40      45
Leu Met Arg Glu His Asp Ile Ser Thr Lys Arg Phe Arg Glu Leu Ala
      50      55      60
Ser Glu Val Gly Ser Leu Leu Thr Tyr Glu Ala Thr Ser Asp Leu Glu
      65      70      75      80
Thr Glu Lys Val Thr Ile Glu Gly Trp Asn Gly Pro Val Gln Val Glu
      85      90      95
Gln Ile Lys Gly Lys Lys Ile Thr Val Val Pro Ile Leu Arg Ala Gly
      100      105      110
Leu Gly Met Met Glu Gly Val Leu Glu His Val Pro Ser Ala Arg Ile
      115      120      125
Ser Val Val Gly Ile Tyr Arg Asn Glu Glu Thr Leu Glu Pro Val Pro
      130      135      140
Tyr Phe Gln Lys Leu Val Ser Asn Ile Asp Glu Arg Met Ala Leu Val
      145      150      155      160
Val Asp Pro Met Leu Ala Thr Gly Gly Ser Met Ile Ala Thr Ile Asp
      165      170      175
Leu Leu Lys Lys Ala Gly Cys Ser Ser Ile Lys Val Leu Val Leu Val
      180      185      190
Ala Ala Pro Glu Gly Ile Ala Ala Leu Glu Lys Ala His Pro Asp Val
      195      200      205
Glu Leu Tyr Thr Ala Ser Val Asp Gln Gly Leu Asn Glu His Gly Tyr
      210      215      220
Ile Ile Pro Gly Leu Gly Asp Ala Gly Asp Lys Ile Phe Gly Thr Lys
      225      230      235      240

```

<210> 10077
 <211> 371
 <212> PRT
 <213> Enterobacter cloacae

<400> 10077

```

Ile Gln Phe Thr Val Ser Leu Pro Pro Phe Asp Ser Gly Lys Gly Cys
1      5      10      15
Met Leu Glu Met Leu Met Gln Trp Tyr Arg Arg Arg Phe Ser Asp Pro
      20      25      30
Glu Ala Ile Ala Leu Leu Val Ile Leu Val Ala Gly Phe Gly Ile Leu
      35      40      45
Phe Phe Phe Ser Gly Leu Leu Ala Pro Leu Leu Val Ala Ile Val Leu
      50      55      60
Ala Tyr Leu Leu Glu Trp Pro Thr Ala Arg Leu Glu His Ile Gly Cys
      65      70      75      80
Ser Arg Arg Trp Ala Thr Ser Ile Val Leu Val Leu Phe Val Gly Ile
      85      90      95
Leu Leu Leu Met Ser Phe Val Val Met Pro Ile Ala Trp Gln Gln Gly
      100      105      110
Ile Tyr Leu Ile Arg Asp Met Pro Gly Met Leu Asn Lys Leu Ser Asp
      115      120      125

```

Phe Ala Ala Thr Leu Pro Arg Arg Tyr Pro Ala Leu Met Asp Ala Gly
 130 135 140
 Ile Ile Asp Ala Met Ala Glu Asn Met Arg Ala Arg Ile Met Thr Met
 145 150 155 160
 Gly Asp Ser Val Val Lys Tyr Ser Leu Ala Ser Leu Val Gly Leu Leu
 165 170 175
 Thr Leu Ala Val Tyr Leu Val Leu Val Pro Leu Met Val Phe Phe Leu
 180 185 190
 Val Lys Asp Lys Glu Gln Met Leu Asn Ala Val Arg Arg Val Leu Pro
 195 200 205
 Arg Asn Arg Gly Leu Ala Gly Gln Val Trp Gln Glu Met Asn Gln Gln
 210 215 220
 Ile Thr Asn Tyr Ile Arg Gly Lys Val Leu Glu Met Ile Val Val Gly
 225 230 235 240
 Val Ala Thr Trp Ile Gly Phe Val Ile Phe Gly Leu Asn Tyr Ser Leu
 245 250 255
 Leu Leu Ala Val Leu Val Gly Phe Ser Val Leu Ile Pro Tyr Ile Gly
 260 265 270
 Ala Phe Val Val Thr Ile Pro Val Val Gly Val Ala Leu Phe Gln Phe
 275 280 285
 Gly Leu Gly Thr Glu Phe Trp Ser Cys Phe Ala Val Tyr Leu Ile Ile
 290 295 300
 Gln Gly Leu Asp Gly Asn Leu Leu Val Pro Val Leu Phe Ser Glu Ala
 305 310 315 320
 Val Asn Leu His Pro Leu Val Ile Ile Leu Ser Val Val Ile Phe Gly
 325 330 335
 Gly Leu Trp Gly Phe Trp Gly Val Phe Phe Ala Ile Pro Leu Ala Thr
 340 345 350
 Leu Ile Lys Ala Val Val His Ala Trp Pro Asp Val Pro Ala Val Glu
 355 360 365
 Asp Lys
 370

<210> 10078

<211> 348

<212> PRT

<213> Enterobacter cloacae

<400> 10078

Gly Asp Leu Met Ala Tyr Ser Val Gln Lys Ser Arg Leu Ala Lys Val
 1 5 10 15
 Ala Gly Val Ser Leu Val Met Leu Leu Ala Ala Cys Ser Ser Asp Ser
 20 25 30
 Arg Tyr Lys Arg Gln Val Ser Gly Asp Glu Ser Tyr Leu Asp Ala Pro
 35 40 45
 Pro Leu Ala Glu Leu His Ala Pro Ala Gly Met Ile Leu Pro Ile Gln
 50 55 60
 Asn Gly Asp Tyr Asn Ile Pro Val Thr Asn Gly Ser Gly Leu Val Gly
 65 70 75 80
 Lys Ala Leu Asp Ile Arg Pro Pro Ala Gln Pro Leu Ala Leu Val Ser
 85 90 95
 Gly Ala Arg Thr Gln Phe Thr Gly Asp Thr Ala Ser Leu Leu Val Glu
 100 105 110
 Ser Ala Arg Gly Thr Thr Leu Trp Pro Gln Val Val Ser Val Ile Gln
 115 120 125
 Ser Lys Asn Tyr Thr Ile Asp Lys Arg Asp Asp Ala Ser Gln Ala Leu
 130 135 140
 Thr Thr Asp Trp Ile Glu Trp Asn Arg Leu Asp Glu Asp Gln Gln Tyr
 145 150 155 160
 Arg Gly Arg Tyr Gln Val Ser Val Lys Pro Gln Gly Tyr Gln Gln Ala
 165 170 175

Val Thr Val Lys Leu Leu Asn Leu Asp Gln Ala Gly Lys Pro Val Ala
 180 185 190
 Asp Pro Ser Ala Met Gln Arg Tyr Ser Thr Glu Met Leu Asn Val Ile
 195 200 205
 Ala Ala Gly Leu Asp Lys Asn Ala Thr Asp Ala Ala Asn Ala Ala Gln
 210 215 220
 Asn Arg Asn Gly Ser Thr Phe Asp Val Gln Ser Gly Ala Asp Asp Thr
 225 230 235 240
 Gly Leu Pro Met Leu Val Val Arg Ala Pro Phe Asn Gln Thr Trp Gln
 245 250 255
 Arg Leu Pro Ala Thr Leu Glu Lys Val Gly Met Lys Val Thr Asp Ser
 260 265 270
 Thr Arg Ser Thr Gly Ser Ile Thr Ala Thr Tyr Lys Pro Leu Ser Asp
 275 280 285
 Ser Ala Trp Gln Glu Leu Gly Ala Ser Asp Pro Gln Leu Pro Ser Gly
 290 295 300
 Asp Tyr Lys Ile Gln Val Gly Asp Leu Asp Asn Arg Ser Ser Leu Gln
 305 310 315 320
 Phe Ile Asp Pro Lys Gly His Thr Leu Thr Gln Ala Gln Asn Asp Ala
 325 330 335
 Leu Val Ala Ala Phe Gln Ala Ala Phe Ser Lys
 340 345

<210> 10079

<211> 656

<212> PRT

<213> Enterobacter cloacae

<400> 10079

Tyr Leu Arg Gln Ser Tyr Val Met Leu Gly Phe Glu Gln Leu Val Asn
 1 5 10 15
 Gln Leu Gln Arg Thr Gly His Arg Arg Leu Val Val Leu Ser Gly Asp
 20 25 30
 Glu Ala Trp Thr Leu Ser Gln Val Thr His Leu Arg Asp Thr Leu Pro
 35 40 45
 Gly Asp Trp Leu Trp Leu Glu Asn Pro Ser Lys Ala Ile Ser Gly
 50 55 60
 Leu Leu Gly Arg Glu Tyr Leu His Ala Val Phe Asp Ala Arg Asp Gly
 65 70 75 80
 Phe Asp Val Ser Ala Phe Ala Ala Leu Ser Gly Thr Leu Arg Ala Gly
 85 90 95
 Ser Leu Leu Val Leu Leu Val Pro Pro Phe Ser Val Trp Ala Asp Arg
 100 105 110
 Pro Asp Arg Asp Ser Leu Arg Trp Ser Asp Ser Ala Glu Pro Ile Ala
 115 120 125
 Thr Pro His Phe Val His His Phe Cys Arg Met Leu Ala Ala Asp Ser
 130 135 140
 Asp Ala Ile Val Trp His Gln His Arg Pro Leu Cys Leu Pro Val Ala
 145 150 155 160
 Pro Asp Leu Pro Ala Trp Gln Pro Ala Ser Gly Glu Pro Gln Arg Glu
 165 170 175
 Gln Ala Glu Ile Leu Asp Ala Leu Leu Thr Met Ser Ala Gly Val Ala
 180 185 190
 Ala Val Thr Ala Pro Arg Gly Arg Gly Lys Ser Ala Leu Ala Gly Met
 195 200 205
 Leu Leu Ser Gly Ile Gln Gly Ser Ala Val Val Thr Ala Pro Ala Lys
 210 215 220
 Gly Ala Thr Asp Val Ile Ala Arg Phe Ala Gly Glu Arg Phe His Phe
 225 230 235 240
 Met Ala Pro Asp Ala Leu Leu Ala Ser Thr Thr Glu Ala Asp Trp Leu
 245 250 255

```

Ile Val Asp Glu Ala Ala Ala Ile Pro Gly Pro Leu Leu Glu Lys Leu
260 265 270
Ala Ser Arg Phe Pro Arg Val Leu Leu Thr Thr Thr Val Gln Gly Tyr
275 280 285
Glu Gly Thr Gly Arg Gly Phe Leu Leu Lys Phe Cys Ala Arg Phe Ser
290 295 300
Gly Leu Arg Arg Tyr Thr Leu Ser Thr Pro Val Arg Trp Ala Thr Gly
305 310 315 320
Cys Pro Leu Glu Arg Ile Val Ala Asn Ala Leu Leu Phe Asp Asp Ala
325 330 335
Leu Ile Asp Arg Lys Pro Ala Gly Glu Val Arg Leu Thr Ser Leu Glu
340 345 350
Pro Gly Ile Trp Glu Ser Asp Pro Ala Arg Gly Ala Gly Val Tyr Glu
355 360 365
Leu Leu Cys Ala Ala His Tyr Arg Thr Ser Pro Leu Asp Leu Arg Arg
370 375 380
Met Met Asp Ala Pro Gly Gln His Phe Ala Val Ala Gln Ala Gly Ala
385 390 395 400
Glu Ile Ala Gly Ala Leu Trp Leu Val Glu Glu Gly Gly Leu Pro Pro
405 410 415
Glu Leu Ser Arg Ala Val Trp Ala Gly Phe Arg Arg Pro Arg Gly Asn
420 425 430
Leu Val Ala Gln Ser Leu Ala Ala His Gly Gly Ser Pro Leu Ala Ala
435 440 445
Thr Leu Lys Gly Arg Arg Val Ser Arg Ile Ala Val His Pro His Arg
450 455 460
Gln Arg Glu Gly Ile Gly Gln Arg Leu Ile Arg Ser Ala Ser Gly Glu
465 470 475 480
Asp Tyr Leu Ser Val Ser Phe Gly Tyr Thr Asp Glu Leu Trp Arg Phe
485 490 495
Trp Arg Gln Cys Gly Phe Val Leu Val Arg Met Gly Ser His Arg Glu
500 505 510
Ala Ser Ser Gly Cys Tyr Thr Ala Met Ala Leu Leu Pro Leu Ser Glu
515 520 525
Ala Gly His Gln Leu Cys Glu Gln Ala His Gln Arg Leu Cys Arg Asp
530 535 540
Met Arg Val Leu Ser Ala Trp Asn Gly Glu Lys Ile Pro Val Thr Asp
545 550 555 560
Ala Trp Glu Ala Thr Leu Asn Ser Asp Asp Trp Leu Glu Leu Ala Gly
565 570 575
Phe Ala Phe Ala His Arg Ala Phe Ser Thr Ser Val Ala Ala Leu Thr
580 585 590
Arg Leu Val Leu Ala Val Asp Ile Pro Leu Pro Ala Leu Arg Gly Lys
595 600 605
Met Glu Gly Asn Thr His Asp Phe Gly Arg Lys Ala Leu Leu Ala Lys
610 615 620
Leu Arg Glu Glu Thr Ala His Ala Leu Glu Arg Leu Asp Tyr Ser Arg
625 630 635 640
Ser Gln Gln Leu Lys Ala Asp Ile Leu Gln Trp Gln Phe Phe Gln
645 650 655

```

<210> 10080

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 10080

```

Ile Tyr Pro Ile Asn Pro Ile Glu Pro Ala Arg Pro Gly His Glu Asp
1 5 10 15
Thr Pro Gln Ile Asp Leu Phe Val Ser Gly Ala Val Pro Phe Met Arg
20 25 30

```

Tyr Cys Val Phe Leu Leu Phe Phe Ile Cys Val Leu Pro Ala Pro Arg
 35 40 45
 Val Trp Ala Ala Pro Ala Gln Ser Phe Ser Asp Trp Gln Val Thr
 50 55 60
 Cys Asn Asn Gln Asn Phe Cys Val Ala Arg Asn Thr Gly Glu His Arg
 65 70 75 80
 Gly Leu Val Met Ser Leu Ser Arg Ser Ala Gly Ala Lys Thr Asp Ala
 85 90 95
 Ser Leu Arg Ile Asp Leu Gly Gly Leu Ser Ala Pro Pro Val Lys Glu
 100 105 110
 Pro Asp Ile Ala Pro Arg Leu Leu Leu Asp Asn Val Pro Leu Lys Leu
 115 120 125
 Thr Ser Gln His Trp Gln Leu Thr Pro Trp His Leu Lys Thr Asp Asp
 130 135 140
 Thr Gly Thr Ile Thr Thr Phe Leu Lys Thr Ile Gln Glu Gly Gln Ala
 145 150 155 160
 Leu Thr Leu Arg Gly Gly Lys Gln Thr Ile Ser Leu Ala Gly Leu Lys
 165 170 175
 Ala Ala Leu Leu Phe Ile Asp Ala Gln Gln Lys Arg Val Gly Ser Glu
 180 185 190
 Thr Ala Trp Ile Lys Lys Gly Asp Ser Pro Pro Leu Ser Val Pro Pro
 195 200 205
 Ala Pro Ala Leu Lys Lys Val Ala Val Val Asn Pro Thr Pro Thr Pro
 210 215 220
 Leu Thr His Asn Glu Leu Asn Asp Leu Leu Asp Tyr Gly Asn Trp Arg
 225 230 235 240
 Met Asn His Ser Gln Cys Ser Leu Asp Pro Asn Arg Arg Glu Val Arg
 245 250 255
 Val Thr Ala Leu Thr Asp Asp Lys Ala Leu Met Ile Ile Ser Cys Glu
 260 265 270
 Ala Gly Ala Tyr Asn Thr Val Asp Leu Ala Trp Leu Val Ser Arg Lys
 275 280 285
 Lys Pro Phe Ala Ala Arg Ser Val Arg Leu Arg Leu Pro Phe Thr Pro
 290 295 300
 Ser Ser Gln Ser Ser Asp Met Glu Leu Met Asn Ala Ser Phe Asp Glu
 305 310 315 320
 Lys Lys Arg Glu Leu Thr Thr Leu Ala Leu Gly Arg Gly Ile Gly Asp
 325 330 335
 Cys Gly Ile Gln Thr Arg Trp Arg Phe Asn Gly Gln Arg Phe Arg Leu
 340 345 350
 Val Arg Tyr Ala Glu Glu Pro Ser Cys Asp Asn Trp Asn Gly Pro Asp
 355 360 365
 Ala Trp Pro Thr Leu Trp Ile Thr Arg
 370 375

<210> 10081

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 10081

His Ser Ala Lys Ser Leu Trp Ser Thr Cys Gly Arg Ser Leu Met Ala
 1 5 10 15
 Glu Val Thr Gln Leu Lys Arg Tyr Asp Ala Pro Arg Ile Asn Trp Gly
 20 25 30
 Lys Trp Phe Leu Ile Gly Thr Gly Val Leu Val Ser Ala Phe Ile Leu
 35 40 45
 Val Val Pro Met Val Tyr Ile Phe Val Gln Ala Phe Ser Lys Gly Ile
 50 55 60
 Met Pro Ala Leu Gln Asn Leu Ala Asp Pro Asp Met Leu His Ala Ile
 65 70 75 80

Trp Leu Thr Val Met Ile Ala Leu Ile Thr Val Pro Val Asn Leu Val
 85 90 95
 Phe Gly Val Leu Leu Ala Trp Leu Val Thr Arg Phe Asn Phe Pro Gly
 100 105 110
 Arg Gln Leu Leu Leu Thr Leu Leu Asp Ile Pro Phe Ala Val Ser Pro
 115 120 125
 Val Val Ala Gly Leu Val Tyr Leu Leu Phe Tyr Gly Ser Asn Gly Pro
 130 135 140
 Leu Gly Gly Trp Leu Asp Glu His Asp Leu Gln Ile Met Phe Ala Trp
 145 150 155 160
 Pro Gly Met Val Leu Val Thr Val Phe Val Thr Cys Pro Phe Val Val
 165 170 175
 Arg Glu Leu Val Pro Val Met Leu Ser Gln Gly Ser His Glu Asp Glu
 180 185 190
 Ala Ala Val Leu Leu Gly Ala Ser Gly Trp Gln Met Phe Arg Arg Val
 195 200 205
 Thr Leu Pro Asn Ile Arg Trp Ala Leu Leu Tyr Gly Val Val Leu Thr
 210 215 220
 Asn Ala Arg Ala Ile Gly Glu Phe Gly Ala Val Ser Val Val Ser Gly
 225 230 235 240
 Ser Ile Arg Gly Glu Thr Leu Ser Leu Pro Leu Gln Ile Glu Leu Leu
 245 250 255
 Glu Gln Asp Tyr Asn Thr Val Gly Ser Phe Thr Ala Ala Ala Leu Leu
 260 265 270
 Thr Leu Met Ala Ile Leu Thr Leu Phe Leu Lys Ser Val Val Gln Trp
 275 280 285
 Arg Leu Glu Asn Gln Glu Lys Arg Gln His Gln Glu Gly Asn His Glu
 290 295 300
 His
 305

<210> 10082

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 10082

Arg Ser Ala Trp Met Val Glu Thr Pro Ala Ala Gly Thr Ile Gly Val
 1 5 10 15
 His Leu Ala Lys Glu Val Asp Phe Phe Ser Ile Gly Thr Asn Asp Leu
 20 25 30
 Thr Gln Tyr Thr Leu Ala Val Asp Gly Gly Asn Asp Met Ile Ser His
 35 40 45
 Leu Tyr Gln Pro Met Ser Pro Ser Val Leu Asn Leu Ile Lys Gln Val
 50 55 60
 Ile Asp Ala Ser His Ala Glu Gly Lys Trp Thr Gly Met Cys Gly Glu
 65 70 75 80
 Leu Ala Gly Asp Glu Arg Ala Thr Leu Leu Leu Leu Gly Met Gly Leu
 85 90 95
 Asp Glu Phe Ser Met Ser Ala Ile Ser Ile Pro Arg Ile Lys Lys Ile
 100 105 110
 Ile Arg Asn Thr Asn Phe Glu Asp Ala Lys Val Leu Ala Glu Gln Ala
 115 120 125
 Leu Ala Gln Pro Thr Thr Asp Glu Leu Met Thr Leu Val Asn Lys Phe
 130 135 140
 Ile Glu Glu Lys Thr Ile Cys
 145 150

<210> 10083

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 10083

```

Leu Asn Arg Leu Ala Val Pro Arg Gln Arg Val Gln Pro Cys Ala Ala
1      5      10      15
Leu Ser Ala Leu Phe Asn Gln Leu Ile Gln His Gly Trp Gly Gly Glu
      20      25      30
Arg Lys His Leu Cys Arg Ala Val Phe Asn Ala Gly Arg Ala Leu Arg
      35      40      45
Pro Phe Gln Ala Glu Val Ala Phe Val Arg Arg Gly Leu Tyr Ala Val
      50      55      60
Val Phe Gln Arg Gly Asp Gln His Val His Arg Ala Lys Arg Thr Gly
65      70      75      80
His His Ala Gly Phe Thr Ala Asn Ala Phe Leu Leu Ile Asp Leu Tyr
      85      90      95
Ala Val Ala Val Leu Arg Asp Gly Ser Val Arg Ala Ala Leu Arg Ala
      100      105      110
Gly Arg Ile Phe Thr Val Val Ala Gly His Gly Ala Phe Ser Gln Ala
      115      120      125

```

<210> 10084

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 10084

```

Pro Arg Lys Gly Arg Thr Gly Leu Thr Thr Ser Ser Gln His Tyr Leu
1      5      10      15
Val Ile Thr Ala Leu Gly Ala Asp Arg Pro Gly Ile Val Asn Thr Ile
      20      25      30
Thr Arg His Val Ser Ser Cys Gly Cys Asn Ile Glu Asp Ser Arg Leu
      35      40      45
Ala Met Leu Gly Glu Glu Phe Thr Phe Ile Met Leu Leu Ser Gly Thr
      50      55      60
Trp Asn Ala Ile Thr Leu Ile Glu Ser Thr Leu Pro Leu Lys Gly Ala
65      70      75      80
Glu Leu Asp Leu Leu Ile Val Met Lys Arg Thr Thr Ala Arg Pro Arg
      85      90      95
Pro Ala Leu Pro Ala Thr Val Trp Val Gln Val Glu Val Pro Asp Ser
      100      105      110
Pro His Leu Ile Glu Arg Phe Thr Ala Leu Phe Asp Ser His Gln Met
      115      120      125
Asn Ile Ala Glu Leu Val Ser Arg Thr Gln Pro Gly Asp Glu Asn Ala
      130      135      140
Ile Pro Thr Leu Phe Ile Gln Ile Thr Ala His Ser Pro Ala Ser Gln
145      150      155      160
Asp Ala Ser Asn Ile Glu Gln Ala Phe Lys Ala Leu Cys Thr Glu Leu
      165      170      175
His Ala Gln Gly Ser Ile Ser Val Val Asp Tyr Ser Gln His Glu Gln
      180      185      190
Asp Gly Val Glu
      195

```

<210> 10085

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 10085

Ser Leu Ala Ala Cys Asn Arg Pro Ala Thr Met Arg Glu Ser Thr Ser
 1 5 10 15
 Cys Ala Ala Cys Asn Asn Ala Leu Ser Arg Thr Arg Arg Cys Asn Lys
 20 25 30
 Gly Glu Val Met Thr Asp Ala Val Lys Ile Tyr His Asn Pro Arg Cys
 35 40 45
 Ser Lys Ser Arg Glu Thr Leu Asn Leu Leu Lys Ser Asn Gly Ile Asp
 50 55 60
 Pro Glu Val Val Leu Tyr Leu Glu Thr Pro Pro Asp Ala Gln Thr Ile
 65 70 75 80
 Arg Gln Leu Leu Lys Met Leu Asn Met Gly Ser Ala Arg Asp Leu Met
 85 90 95
 Arg Gln Lys Glu Asp Leu Tyr Lys Ser Leu Asn Leu Asn Asp Thr Ser
 100 105 110
 Leu Thr Glu Asp Arg Leu Ile Gln Ala Met Val Asp Asn Pro Lys Leu
 115 120 125
 Ile Glu Arg Pro Ile Val Val Ala Asn Gly Lys Ala Arg Ile Gly Arg
 130 135 140
 Pro Pro Glu Asp Val Leu Gly Ile Val
 145 150

<210> 10086

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 10086

Met Lys Asn Ile Val Val Leu Ile Ser Gly Asn Gly Ser Asn Leu Gln
 1 5 10 15
 Ala Ile Ile Asp Ala Cys Lys Gln Lys Lys Ile Asn Gly Thr Ile Arg
 20 25 30
 Ala Val Phe Ser Asn Lys Ala Asp Ala Phe Gly Leu Glu Arg Ala Arg
 35 40 45
 Glu Ala Asn Ile Pro Ala His Ala Leu Glu Ala Ser Gln Phe Ala Gly
 50 55 60
 Arg Glu Ala Phe Asp Arg Glu Leu Val Gln Glu Ile Asp Ala Tyr Ala
 65 70 75 80
 Pro Asp Val Val Val Leu Ala Gly Tyr Met Arg Ile Leu Ser Pro Ala
 85 90 95
 Phe Val Ala His Tyr Ala Gly Arg Leu Leu Asn Ile His Pro Ser Leu
 100 105 110
 Leu Pro Lys Tyr Pro Gly Leu His Thr His Arg Gln Val Leu Glu Asn
 115 120 125
 Gly Asp Glu Glu His Gly Thr Ser Val His Phe Val Thr Asp Glu Leu
 130 135 140
 Asp Gly Gly Pro Val Ile Leu Gln Ala Lys Val Pro Val Phe Asp Gly
 145 150 155 160
 Asp Asn Glu Asp Asp Val Thr Glu Arg Val Gln Ala Gln Glu His Ala
 165 170 175
 Ile Tyr Pro Leu Val Val Ser Trp Phe Val Asp Gly Arg Leu Glu Met
 180 185 190
 Arg Asp Gly Ala Ala Trp Leu Asp Gly Val Lys Leu Pro Pro Gln Gly
 195 200 205
 Tyr Ala Ala Glu Gly Val Val Cys Leu Asn Cys Pro Ala Ala Leu Arg
 210 215 220
 Leu His Gly Pro Thr Val Pro
 225 230

<210> 10087

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 10087

```

Leu Phe Thr Ser Ala Val Pro Lys Arg Thr Arg Phe Thr Ala Thr Gln
1      5      10      15
Asp Arg Lys Met Leu Asp Tyr Arg Phe Pro Thr Ala Leu Gln Met Val
20      25      30
Leu Ser Val Ala Met Ala Glu Gln Ser Gly Glu Arg Ser Thr Ser Ala
35      40      45
Ile Leu Ala Tyr Gly Leu Glu Ala Asn Pro Ser Phe Ile Arg Lys Leu
50      55      60
Met Val Pro Leu Ala Arg Asp Gly Ile Ile Val Ser Thr Leu Gly Arg
65      70      75      80
Asn Gly Ser Ile His Leu Gly Arg Pro Ala Glu Glu Ile Thr Leu Arg
85      90      95
Asp Ile Tyr Leu Ser Val Thr Glu Asp Lys Lys Leu Trp Ala Ser Arg
100     105     110
Pro Asp Val Pro Ala Arg Cys Val Val Ser Ala Asn Ala Cys Trp Tyr
115     120     125
Phe Lys Ser Ile Ala Asp Glu Ala Glu Gln Ala Ser Leu Ala Val Leu
130     135     140
Ala Arg His Thr Val Ala Ser Ala Leu Glu Glu Val Lys Lys Ala Asp
145     150     155     160
Thr Ser Gly Cys Asp Pro Val Pro Glu Leu Cys Thr Gln His Lys Lys
165     170     175
Ala Pro

```

<210> 10088

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 10088

```

Glu Lys Ile Met Gly Leu Phe Asp Lys Leu Lys Ser Leu Val Ser Asp
1      5      10      15
Asp Lys Lys Asp Ser Gly Thr Ile Glu Ile Val Ala Pro Leu Ser Gly
20      25      30
Glu Ile Val Asn Ile Glu Asp Val Pro Asp Val Val Phe Ala Glu Lys
35      40      45
Ile Val Gly Asp Gly Ile Ala Ile Lys Pro Thr Gly Asn Lys Met Val
50      55      60
Ala Pro Val Asp Gly Thr Ile Gly Lys Ile Phe Glu Thr Asn His Ala
65      70      75      80
Phe Ser Ile Glu Ser Asp Ser Gly Ile Glu Leu Phe Val His Phe Gly
85      90      95
Ile Asp Thr Val Glu Leu Lys Gly Glu Gly Phe Lys Arg Ile Ala Glu
100     105     110
Glu Gly Gln Arg Val Lys Val Gly Asp Pro Val Ile Glu Phe Asp Leu
115     120     125
Pro Leu Leu Glu Glu Lys Ala Lys Ser Thr Leu Thr Pro Val Val Ile
130     135     140
Ser Asn Met Asp Glu Ile Lys Glu Leu Ile Lys Leu Ser Gly Ser Val
145     150     155     160
Thr Val Gly Glu Thr Pro Val Ile Arg Ile Lys Lys
165     170

```

<210> 10089

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 10089

Ser Lys Ser Ala Leu Gln Glu Thr Leu Met Lys Pro Asn Ala Gln Leu
 1 5 10 15
 Val Lys Thr Phe Leu Met Gln Leu Gln Asp Ala Ile Cys Gln Lys Leu
 20 25 30
 Ser Ala Ala Asp Gly Gly Glu Phe Gln Glu Asp Ala Trp Gln Arg Glu
 35 40 45
 Ala Gly Gly Gly Gly Arg Ser Arg Val Leu Arg Asn Gly Gly Ile Phe
 50 55 60
 Glu Gln Ala Gly Val Asn Phe Ser His Val His Gly Asp Ala Met Pro
 65 70 75 80
 Ala Ser Ala Thr Ala His Arg Pro Glu Leu Ala Gly Arg Ser Phe Glu
 85 90 95
 Ala Met Gly Val Ser Leu Val Ala His Pro His Asn Pro Phe Val Pro
 100 105 110
 Thr Ser His Ala Asn Val Arg Phe Phe Ile Ala Glu Lys Pro Gly Ala
 115 120 125
 Asp Pro Val Trp Trp Phe Gly Gly Gly Phe Asp Leu Thr Pro Tyr Tyr
 130 135 140
 Gly Phe Glu Glu Asp Ala Val His Trp His Thr Thr Ala Arg Asp Leu
 145 150 155 160
 Cys Leu Pro Phe Gly Glu Asp Val Tyr Pro Lys Tyr Lys Lys Trp Cys
 165 170 175
 Asp Asp Tyr Phe Tyr Leu Lys His Arg Asp Glu Gln Arg Gly Ile Gly
 180 185 190
 Gly Leu Phe Phe Asp Asp Leu Asn Thr Pro Asp Phe Asp Thr Ala Phe
 195 200 205
 Ser Phe Met Arg Ala Val Gly Glu Gly Phe Thr Asp Ala Tyr Leu Pro
 210 215 220
 Ile Val Glu Arg Arg Lys Asn Thr Asp Tyr Gly Val Arg Glu Arg Glu
 225 230 235 240
 Phe Gln Leu Tyr Arg Arg Gly Arg Tyr Val Glu Phe Asn Leu Val Trp
 245 250 255
 Asp Arg Gly Thr Leu Phe Gly Leu Gln Thr Gly Gly Arg Thr Glu Ser
 260 265 270
 Ile Leu Met Ser Met Pro Pro Leu Val Arg Trp Glu Tyr Ser Tyr Ala
 275 280 285
 Pro Lys Glu Gly Ser Pro Glu Ala Ala Leu Ser Glu Phe Ile Arg Val
 290 295 300
 Arg Asp Trp Val
 305

<210> 10090

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 10090

Leu Phe Tyr Phe Gln Gly Val Ile Met Asn Gln Leu Asp Gly Ile Lys
 1 5 10 15
 Gln Phe Thr Thr Val Val Ala Asp Ser Gly Asp Ile Glu Ser Ile Arg
 20 25 30
 His Tyr Gln Pro Glu Asp Ala Thr Thr Asn Pro Ser Leu Leu Lys
 35 40 45
 Ala Ala Gly Leu Ala His Phe Ser His Leu Ile Asp Asp Ala Leu Ala
 50 55 60
 Tyr Gly Lys Gln Arg Gly Gln Thr Gln Glu Gln Gln Val Ala Glu Ala
 65 70 75 80
 Ser Asp Lys Leu Ala Val Asn Ile Gly Ala Glu Ile Leu Lys Ser Ile
 85 90 95

Pro Gly Arg Val Ser Thr Glu Val Asp Ala Arg Leu Ser Phe Asp Gln
 100 105 110
 Glu Lys Ser Ile Asn Lys Ala Arg Arg Leu Val Glu Leu Tyr Gln Glu
 115 120 125
 Gln Gly Ile Asp Lys Ser Arg Ile Leu Ile Lys Leu Ala Ser Thr Trp
 130 135 140
 Glu Gly Ile Arg Ala Ala Glu Val Leu Glu Lys Asp Gly Ile His Cys
 145 150 155 160
 Asn Leu Thr Leu Leu Phe Ser Phe Ala Gln Ala Arg Ala Cys Ala Glu
 165 170 175
 Ala Gly Val Phe Leu Ile Ser Pro Phe Val Gly Arg Ile Tyr Asp Trp
 180 185 190
 Tyr Gln Ala Lys Gln Pro Met Asp Pro Tyr Val Val Glu Glu Asp Pro
 195 200 205
 Gly Val Lys Ser Val Arg Asn Ile Tyr Asp Tyr Tyr Lys Gln His Arg
 210 215 220
 Tyr Glu Thr Ile Val Met Gly Ala Ser Phe Arg Arg Thr Glu Gln Ile
 225 230 235 240
 Leu Ala Leu Ala Gly Cys Asp Arg Leu Thr Ile Ser Pro Glu Leu Leu
 245 250 255
 Lys Lys Leu Gln Glu Ser Glu Glu Thr Val Ile Arg Lys Leu Val Pro
 260 265 270
 Thr Ser Thr Val Leu Pro Lys Pro Lys Pro Met Thr Glu Ala Glu Phe
 275 280 285
 Arg Trp Glu His Asn Gln Asp Pro Met Ala Val Glu Lys Leu Ala Asp
 290 295 300
 Gly Ile Arg Gln Phe Ala Val Asp Gln Arg Lys Leu Glu Asp Leu Leu
 305 310 315 320
 Ala Ala Lys Leu
 325

<210> 10091

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 10091

Ile His Lys Arg Thr Lys Gly Phe Thr Met Val Val Met Tyr Gly Ile
 1 5 10 15
 Lys Asn Cys Asp Thr Ile Lys Lys Ala Arg Arg Trp Leu Glu Ala His
 20 25 30
 Asn Ile Asp Tyr Arg Phe His Asp Tyr Arg Ala Asp Gly Leu Asp Pro
 35 40 45
 Ala Phe Leu His Ser Ala Ile Asn Glu Leu Gly Trp Glu Ala Leu Leu
 50 55 60
 Asn Thr Arg Gly Thr Thr Trp Arg Lys Leu Asp Glu Ser Leu Arg Ala
 65 70 75 80
 Thr Ile Asn Asp Ala Asp Ser Ala Ala Lys Leu Met Leu Glu Met Pro
 85 90 95
 Ala Ile Ile Lys Arg Pro Leu Leu Cys Lys Pro Gly Gln Pro Met Leu
 100 105 110
 Leu Gly Phe Ser Glu Thr Leu Tyr Ser Asp Leu Phe Val Glu Val
 115 120 125

<210> 10092

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 10092

Ser Met Ser Cys Pro Val Ile Glu Leu Thr Gln Gln Leu Ile Arg Arg

```
<210> 10093
<211> 67
<212> PRT
<213> Enterobacter cloacae
```

<400> 10093																
Arg	Met	Asp	Trp	Leu	Ser	Lys	Tyr	Trp	Trp	Ile	Leu	Val	Leu	Val	Phe	
1				5					10					15		
Leu	Val	Gly	Val	Leu	Leu	Asn	Val	Ile	Lys	Asp	Leu	Lys	Arg	Val	Asp	
			20					25					30			
His	Lys	Lys	Phe	Leu	Ala	Asn	Lys	Pro	Asp	Leu	Pro	Pro	His	Arg	Asp	
			35				40					45				
Phe	Asn	Asp	Lys	Trp	Asp	Asp	Glu	Asp	Asp	Trp	Pro	Lys	Lys	Asp	Gln	

50
Lys Lys
65

55

60

<210> 10094
<211> 476
<212> PRT
<213> Enterobacter cloacae

<400> 10094

Gly Val Met Met Ile Thr Tyr Gln Phe Ile Asn Ala Leu Ser Asp Ala
1 5 10 15
Lys Pro Gln Ser His Leu Ile Ala Arg Ala Asp Ser Ser Leu Leu Pro
20 25 30
Asp Ser Ala Leu Ile Ala Glu Met Arg Gln Gln Ser Thr Val Ala Asp
35 40 45
Ala Arg Phe Gly Cys Ala Pro Phe Ala Arg Ile Thr Leu Leu Pro Asp
50 55 60
Ala Leu Trp His Asp Ala Leu Thr Glu Gly Leu Ile Thr Ala Leu Arg
65 70 75 80
Pro Leu Leu Thr Ala Pro Ala Ser Ala Glu Leu Val Leu Asp Val Thr
85 90 95
Asp Ile Asp Asp Val Val Leu Ala Gln Val Leu Arg Phe Leu Phe Asn
100 105 110
Gln Ala His Met Leu Ser Asp Leu Lys Leu Lys Lys Thr Asp Glu Ala
115 120 125
Leu Arg Leu Thr Cys Ile Thr Ala Leu Cys Leu Pro Glu Gln Gln Ala
130 135 140
Lys Leu Glu Thr Thr Phe Arg Gln Gln Gln Ala Ile Ala Leu Gly Met
145 150 155 160
Val Ala Ala Arg Arg Leu Ala Asp Met Pro Ser Asp Arg Cys Thr Pro
165 170 175
Gln Phe Val Val Glu Glu Ala Gln Lys Leu Cys Ala Ala Ser Pro Ala
180 185 190
Leu Arg Cys Glu Val Leu Asp Glu Lys Gln Ile Val Glu Gln Gly Leu
195 200 205
Gly Leu Leu His Ala Val Gly Lys Gly Ala Thr Cys Pro Pro Arg Leu
210 215 220
Leu Ala Ile His Tyr Asn Gly Val Ser Asp Gly Pro Val Arg Cys Tyr
225 230 235 240
Val Gly Lys Gly Ile Thr Phe Asp Thr Gly Gly Leu Trp Leu Lys Glu
245 250 255
Gly Ala Gly Met Tyr Thr Met Lys Tyr Asp Met Cys Gly Ala Ala Asn
260 265 270
Val Leu Gly Leu Met Leu Thr Val Ala Glu Gln Lys Leu Pro Val Arg
275 280 285
Ile Met Gly Val Leu Ala Leu Ala Glu Asn Ala Ile Gly Pro Asp Ala
290 295 300
Met Gln Pro Gly Thr Val Ala Thr Ala Cys Asn Gly Ile Thr Val Glu
305 310 315 320
Ile Asn Asn Thr Asp Ala Glu Gly Arg Leu Val Leu Ala Asp Ala Ile
325 330 335
Ala Trp Ala Ser Gln Arg His Pro Gln Ala His Tyr Ile Ile Asp Met
340 345 350
Ala Thr Leu Thr Gly Ala Val Val Lys Ala Leu Gly Tyr Glu Leu Ser
355 360 365
Gly Leu Met Thr Gln Asp Glu Pro Leu Arg Gln Ala Leu Thr Leu Ala
370 375 380
Gly Lys Arg Ser Gly Asp Glu Val Trp Ser Leu Pro Leu Asp Ala Arg
385 390 395 400
Leu Arg Lys Gln Thr Asp Ser Ala Ile Ala Asp Leu Cys Asn Thr Pro

[illegible]

```
<210> 10095
<211> 347
<212> PRT
<213> Enterobacter cloacae
```

Ala 1	Val 5	Thr 10	Asn 15	Lys 20	Thr 25	Ser 30	Leu 35	Ser 40	Tyr 45	Lys 50	Asp 55	Ala 60	Gly 65	Val 70	Asp 75
Ile 1	Asp 5	Ala 10	Gly 15	Asn 20	Ala 25	Leu 30	Val 35	Asp 40	Ile 45	Lys 50	Gly 55	Val 60	Val 65	Lys 70	Asp 75
Lys 1	Thr 5	Arg 10	Arg 15	Pro 20	Glu 25	Val 30	Met 35	Gly 40	Gly 45	Leu 50	Gly 55	Gly 60	Phe 65	Gly 70	Ala 75
Leu 1	Cys 5	Ala 10	Leu 15	Pro 20	Gln 25	Lys 30	Tyr 35	Arg 40	Glu 45	Pro 50	Val 55	Val 60	Val 65	Ser 70	Gly 75
Thr 65	Asp 70	Gly 75	Val 80	Gly 85	Thr 90	Lys 95	Leu 100	Arg 105	Leu 110	Ala 115	Met 120	Asp 125	Leu 130	Lys 135	Arg 140
His 65	Asp 70	Thr 75	Ile 80	Gly 85	Ile 90	Asp 95	Leu 100	Val 105	Ala 110	Met 115	Cys 120	Val 125	Asn 130	Asp 135	Leu 140
Val 65	Val 70	Gln 75	Gly 80	Ala 85	Glu 90	Pro 95	Leu 100	Phe 105	Phe 110	Leu 115	Asp 120	Tyr 125	Tyr 130	Ala 135	Thr 140
Gly 65	Lys 70	Leu 75	Asp 80	Val 85	Asp 90	Thr 95	Ala 100	Ala 105	Ser 110	Val 115	Ile 120	Asn 125	Gly 130	Ile 135	Ala 140
Glu 65	Gly 70	Cys 75	Leu 80	Gln 85	Ser 90	Gly 95	Cys 100	Ala 105	Leu 110	Val 115	Gly 120	Gly 125	Glu 130	Thr 135	Ala 140
Glu 145	Met 150	Pro 155	Gly 160	Met 165	Tyr 170	His 175	Gly 180	Glu 185	Asp 190	Tyr 195	Asp 200	Val 205	Ala 210	Gly 215	Phe 220
Cys 65	Val 70	Gly 75	Val 80	Val 85	Glu 90	Lys 95	Ser 100	Glu 105	Ile 110	Ile 115	Asp 120	Gly 125	Ser 130	Lys 135	Val 140
Ala 65	Asp 70	Gly 75	Asp 80	Val 85	Leu 90	Val 95	Ala 100	Leu 105	Ala 110	Ser 115	Ser 120	Gly 125	Pro 130	His 135	Ser 140
Asn 65	Gly 70	Tyr 75	Ser 80	Leu 85	Val 90	Arg 95	Lys 100	Ile 105	Leu 110	Glu 115	Val 120	Ser 125	Gly 130	Cys 135	Asp 140
Pro 65	Leu 70	Thr 75	Thr 80	Glu 85	Leu 90	Asp 95	Gly 100	Lys 105	Pro 110	Leu 115	Ala 120	Asp 125	His 130	Leu 135	Leu 140
Ala 225	Pro 230	Thr 235	Arg 240	Ile 245	Tyr 250	Val 255	Lys 260	Asn 265	Val 270	Leu 275	Glu 280	Leu 285	Ile 290	Glu 295	Asn 300
Val 225	Asp 230	Val 235	His 240	Ala 245	Ile 250	Ala 255	His 260	Leu 265	Thr 270	Gly 275	Gly 280	Phe 285	Trp 290	Glu 295	Ala 300
Asn 225	Ile 230	Pro 235	Arg 240	Val 245	Leu 250	Pro 255	Asp 260	Asn 265	Thr 270	Gln 275	Ala 280	Val 285	Ile 290	Asp 295	Ala 300
Ser 225	Ser 230	Trp 235	Gln 240	Trp 245	Pro 250	Ser 255	Val 260	Phe 265	Asn 270	Trp 275	Leu 280	Gln 285	Thr 290	Ala 295	Gly 300
Asn 305	Val 310	Ser 315	Glu 320	His 325	Glu 330	Met 335	Tyr 340	Arg 345	Thr 350	Phe 355	Asn 360	Cys 365	Gly 370	Val 375	Gly 380
Met 305	Val 310	Ile 315	Ala 320	Leu 325	Pro 330	Ala 335	Ser 340	Glu 345	Ala 350	Asp 355	Lys 360	Ala 365	Ile 370	Lys 375	Leu 380
Leu 305	Thr 310	Glu 315	Lys 320	Gly 325	Glu 330	Asn 335	Ala 340	Trp 345	Lys 350	Ile 355	Gly 360	Thr 365	Ile 370	Lys 375	Ala 380
Ser 305	Asp 310	Ser 315	Glu 320	Gln 325	Arg 330	Val 335	Val 340	Ile 345	Glu 350						

<210> 10096

<211> 689

<212> PRT

<213> Enterobacter cloacae

<400> 10096

```

Ala Val Met Gly Gln Glu Lys Leu Tyr Ile Glu Lys Glu Leu Ser Trp
1      5      10      15
Leu Ala Phe Asn Glu Arg Val Leu Gln Glu Ala Ala Asp Lys Thr Asn
20      25      30
Pro Leu Ile Glu Arg Met Arg Phe Leu Gly Ile Tyr Ser Asn Asn Leu
35      40      45
Asp Glu Phe Tyr Lys Val Arg Phe Ala Glu Leu Lys Arg Arg Ile Ile
50      55      60
Ile Ser Glu Glu Gln Gly Leu Asn Ser His Ser Arg His Leu Leu Gly
65      70      75      80
Lys Ile Gln Ser Arg Val Met Lys Ala Asp Gln Glu Phe Asp Gly Leu
85      90      95
Tyr Asn Glu Leu Leu Leu Glu Met Ala Arg Asn Gln Ile Phe Leu Ile
100     105     110
Asn Glu Arg Gln Leu Ser Ala Asn Gln Asn Trp Leu Arg His Tyr
115     120     125
Phe Lys His Tyr Leu Arg Gln His Ile Thr Pro Ile Leu Ile Asn Arg
130     135     140
Glu Thr Asp Leu Val Gln Phe Leu Lys Asp Asp Tyr Thr Tyr Leu Ala
145     150     155     160
Val Glu Ile Ile Arg Gly Glu Thr Ile Asn Tyr Ala Leu Leu Glu Ile
165     170     175
Pro Ser Asp Lys Val Pro Arg Phe Val Asn Leu Pro Pro Glu Thr Pro
180     185     190
Arg Arg Arg Lys Pro Met Ile Leu Leu Asp Asn Ile Leu Arg Tyr Cys
195     200     205
Leu Asp Asp Ile Phe Lys Gly Phe Phe Asp Tyr Asp Ala Leu Asn Ala
210     215     220
Tyr Ser Met Lys Met Thr Arg Asp Ala Glu Tyr Asp Leu Val His Glu
225     230     235     240
Met Glu Ala Ser Leu Met Glu Leu Met Ser Ser Ser Leu Lys Gln Arg
245     250     255
Leu Thr Ala Glu Pro Val Arg Phe Val Tyr Gln Arg Asp Met Pro Asp
260     265     270
Ala Met Val Glu Met Leu Arg Asp Lys Leu Thr Ile Ser Arg Tyr Asp
275     280     285
Ser Ile Ile Pro Gly Gly Arg Tyr His Asn Phe Lys Asp Phe Ile Gly
290     295     300
Phe Pro Asn Val Gly Lys Ala Asn Leu Val Asn Lys Pro Leu Pro Arg
305     310     315     320
Leu Arg His Ile Trp Phe Asp Lys Phe Arg Asn Gly Phe Asp Ala Ile
325     330     335
Arg Glu Arg Asp Val Leu Leu Tyr Tyr Pro Tyr His Thr Phe Glu His
340     345     350
Val Leu Glu Leu Leu Arg Gln Ala Ser Phe Asp Pro Asn Val Leu Ala
355     360     365
Ile Lys Ile Asn Ile Tyr Arg Val Ala Lys Asp Ser Arg Ile Ile Asp
370     375     380
Ala Met Ile His Ala Ala His Asn Gly Lys Lys Val Thr Val Val Val
385     390     395     400
Glu Leu Gln Ala Arg Phe Asp Glu Glu Ala Asn Ile His Trp Ala Arg
405     410     415
Arg Leu Thr Glu Ala Gly Val His Val Ile Phe Ser Ala Pro Gly Leu
420     425     430
Lys Ile His Ala Lys Leu Phe Leu Ile Ser Arg Lys Glu Gly Asp Glu

```



```
<210> 10097
<211> 514
<212> PRT
<213> Enterobacter cloacae
```

Pro	Met	Pro	Ile	Asn	Asp	Asn	Thr	Pro	Arg	Pro	Gln	Glu	Phe	Ala	Ala
1			5					10						15	
Val	Asp	Leu	Gly	Ser	Asn	Ser	Phe	His	Met	Val	Ile	Ala	Arg	Glu	Val
			20					25					30		
Asp	Gly	Ala	Met	Gln	Ile	Ile	Gly	Arg	Leu	Lys	Gln	Arg	Val	His	Leu
			35				40					45			
Ala	Asp	Gly	Leu	Asp	Ala	Arg	Asn	Met	Leu	Ser	Glu	Glu	Ala	Met	Glu
			50			55					60				
Arg	Gly	Leu	Asn	Cys	Leu	Ser	Leu	Phe	Ala	Glu	Arg	Leu	Gln	Gly	Phe
65				70						75					80
Ser	Pro	Ser	Ser	Val	Cys	Ile	Val	Gly	Thr	His	Thr	Leu	Arg	Gln	Ala
				85				90						95	
Leu	Asn	Ala	Pro	Glu	Phe	Leu	Lys	Arg	Ala	Glu	Lys	Val	Ile	Pro	Tyr
			100					105				110			
Pro	Ile	Glu	Ile	Ile	Ser	Gly	Asn	Glu	Glu	Ala	Arg	Leu	Ile	Phe	Met
			115				120					125			
Gly	Val	Glu	His	Thr	Gln	Pro	Glu	Lys	Gly	Arg	Lys	Leu	Val	Ile	Asp
			130			135					140				
Ile	Gly	Gly	Gly	Ser	Thr	Glu	Leu	Val	Ile	Gly	Glu	Asp	Phe	Glu	Pro
145					150					155					160
Arg	Leu	Val	Glu	Ser	Arg	Arg	Met	Gly	Cys	Val	Ser	Phe	Ala	Gln	Met

```
<210> 10098
<211> 75
<212> PRT
<213> Enterobacter cloacae
```

<400> 10098																
Pro	Tyr	Arg	Pro	Lys	Gly	Tyr	Thr	Gln	Glu	Lys	Lys	Val	Ser	Gln	Ala	
1			5						10					15		
Thr	Arg	Met	Arg	Lys	Arg	His	Arg	Phe	Asn	Thr	Arg	Met	Thr	Arg	Ile	
			20					25					30			
Ile	Leu	Leu	Ile	Ser	Phe	Leu	Phe	Phe	Phe	Gly	Arg	Phe	Val	Tyr	Ser	
			35				40					45				
Ser	Ile	Gly	Ala	Trp	Tyr	His	His	Gln	Asp	Lys	Ile	Gln	Ser	Gln	Gln	
			50			55					60					
Ser	Gly	Leu	Val	Val	Asp	Ser	Pro	Glu	Arg							

65

70

75

<210> 10099

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 10099

Lys	Ile	Met	Glu	Thr	Pro	Ala	Leu	Pro	Arg	Leu	Ala	Leu	Thr	Ala
1			5					10				15		
Gly	Cys	Asn	Gln	Leu	Ile	Asn	Trp	Gly	Ile	Ser	Phe	Tyr	Met	Pro
		20						25				30		Gly
Thr	Phe	Ala	His	Ala	Ile	Thr	Ala	Asp	Arg	Ser	Trp	Ser	Ser	Pro
		35					40					45		Glu
Ile	Tyr	Leu	Gly	Leu	Thr	Leu	Ala	Met	Leu	Val	Met	Ala	Ile	Val
	50				55					60				Ser
Pro	Phe	Val	Ala	Pro	Leu	Leu	Ala	Arg	Phe	Gly	Gly	Gln	Arg	Val
65					70				75					80
Met	Ser	Gly	Thr	Leu	Leu	Ile	Ala	Val	Ser	Cys	Leu	Ser	Met	Ala
			85					90					95	Phe
Thr	Pro	Thr	Leu	Ser	Gly	Trp	Tyr	Gly	Ala	Trp	Leu	Leu	Thr	Gly
		100						105					110	Ile
Gly	Met	Arg	Leu	Ser	Leu	Tyr	Asp	Ala	Leu	Phe	Ser	Ala	Leu	Val
		115					120					125		Asp
Leu	Tyr	Gly	Pro	Gln	Ala	Arg	Arg	Thr	Ile	Ser	Arg	Val	Thr	Leu
	130				135						140			Ala
Gly	Gly	Leu	Ala	Ser	Ala	Val	Phe	Trp	Pro	Leu	Gly	Asp	Ala	Leu
145					150					155				160
Asn	Val	Met	Gly	Trp	Gln	Asp	Ala	Leu	Lys	Ile	Tyr	Ala	Leu	Phe
			165					170						Gly
Leu	Leu	Ser	Ala	Leu	Leu	Leu	Arg	Arg	Phe	Pro	Arg	Gln	Arg	Phe
		180						185				190		Thr
Val	Lys	Pro	Lys	Ala	Cys	Thr	Gln	Val	Ser	Pro	His	Asp	Arg	Arg
	195						200					205		Asn
Gly	Trp	Leu	Tyr	Ala	Thr	Phe	Ile	Ala	Leu	Ile	Thr	Phe	Val	Ser
	210				215						220			Asn
Gly	Thr	Ser	Thr	His	Leu	Pro	Glu	Phe	Ile	Ala	Ser	Phe	Gly	Leu
225					230					235				Pro
Val	Ala	Val	Gly	Met	Leu	Trp	Gly	Met	Gly	Gln	Thr	Gly	Ala	Arg
			245						250					Leu
Met	Glu	Val	Leu	Ala	Gly	Ala	Arg	Leu	Thr	Pro	Leu	Lys	Leu	Thr
	260							265				270		Leu
Phe	Thr	Ala	Leu	Ala	Met	Pro	Leu	Cys	Phe	Leu	Ile	Gly	Leu	Ser
	275						280					285		Ser
Asp	Met	Leu	Ala	Trp	Cys	Ala	Ala	Gly	Phe	Val	Phe	Gly	Phe	Gly
	290				295						300			Ala
Ile	Asn	Gly	Leu	Val	Thr	Ile	Val	Lys	Ala	Thr	Leu	Pro	Leu	Glu
305					310					315				Leu
Phe	Ser	Thr	Glu	Arg	Tyr	Ala	Ser	Arg	Thr	Gly	Leu	Leu	Leu	Ile
			325						330					Pro
Gly	Gln	Leu	Met	Ala	Ala	Ala	Ser	Pro	Phe	Ala	Tyr	Ala	Trp	Leu
		340						345				350		Asn
Lys	Ser	Leu	Gly	Ile	Thr	Gly	Gly	Met	Trp	Val	Ser	Ala	Gly	Leu
	355					360						365		Thr
Leu	Val	Ile	Ala	Gly	Phe	Ala	Val	Ala	Leu	Val	Arg	Ser	Pro	Gly
	370				375						380			Lys
Gln	Thr	Val	Ser	His	Cys	Ile	Pro	Ser	Ala	Thr	Leu	Thr	Asn	Arg
385					390					395				Tyr
Lys	Thr	Pro	Ala	Glu	Ala	Asn	Ile	Pro	Asp	Thr				400
			405						410					

65
 70
 75
 80
 85
 90
 95
 100
 105
 110
 115
 120
 125
 130
 135
 140
 145
 150
 155
 160
 165
 170
 175
 180
 185
 190
 195
 200
 205
 210
 215
 220
 225
 230
 235
 240
 245
 250
 255
 260
 265
 270
 275
 280
 285
 290
 295
 300
 305
 310
 315
 320
 325
 330
 335
 340
 345
 350
 355
 360
 365
 370
 375
 380
 385
 390
 395
 400
 405
 410

<210> 10100

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 10100

```

Tyr Arg Thr Arg Ser Glu Gly Gly Arg Leu Met Arg Asn Phe Trp His
1      5      10      15
His Leu Arg Leu Pro Thr Leu Val Arg Arg Met Leu Val Ala Gln Met
20      25      30
Leu Leu Leu Thr Leu Leu Trp Cys Leu Phe Leu Thr Phe Ile Leu Leu
35      40      45
Glu Asp Leu Arg Ser Pro Pro Ile Leu Thr Gly Ser Glu Thr Tyr Glu
50      55      60
Thr Val Phe Ser Leu Val Glu Ser Met Asp Asp Arg Pro Gln Ala Arg
65      70      75      80
Asp Ala Val Leu Ala Ala Phe Ser Lys Ala Leu Arg Glu Gly Tyr Gly
85      90      95
Gly Gly Glu Tyr Pro Glu Leu Ser Ile Asn Leu Ile Val Arg Lys Asn
100      105      110
Asn Glu Ile Ile Phe Ser Ser Asp Gly Ala Pro Thr Gly Val Lys Asn
115      120      125
Ser Arg Leu Gly Val Met Gln His Val Gln Ser Glu Asp His Thr Trp
130      135      140
Thr Ser Arg Thr Leu Lys Ser Ala His Ser Asp Val Glu Val Thr Leu
145      150      155      160
Phe Thr Pro Ala Gly Ser Trp Asn Phe Phe Ile Tyr Leu Asn Ser Arg
165      170      175
Gly Tyr Tyr Val Met Pro Leu Met Ile Cys Ile Pro Phe Leu Leu Phe
180      185      190
Pro Ala Trp Leu Ser Ile Arg Ile Ala Met Arg Pro Trp Asn Lys Val
195      200      205
Val Asp Glu Ile Ser Leu Arg Thr Pro Asp Asp Leu Ser Pro Leu Lys
210      215      220
Ala Val Pro Arg His Arg Glu Leu Arg Gln Thr Val Asp Ala Ile Asn
225      230      235      240
Asp Phe Leu Ala Arg Val Gln Glu Ser Ala Glu Arg Glu Lys Met Phe
245      250      255
Ile Ala Asp Ala Ala His Glu Leu Arg Thr Pro Leu Ala Ala Met Arg
260      265      270
Ile Asn Val Glu Ala Leu Gln Ser Trp Val Ile Ser Glu Ser Gln Gln
275      280      285
Glu Leu Leu Ala Gly Ile Val Arg Ser Asn Ser Arg Ala Ala Arg Leu
290      295      300
Ile Asn Gln Leu Leu Leu Met Met His Ser Glu Ala His Ile Ser Pro
305      310      315      320
Val Pro Leu Thr Thr Leu Ile Gln Glu Arg Met Ala Ala Leu Glu Pro
325      330      335
Leu Ala Ser Gly Arg Arg Ile Glu Phe Glu Phe Phe Ala Asp Asp Glu
340      345      350
Ile His Val Ala Gly Ile Arg Glu Arg Leu Val Ser Leu Ile Asp Asn
355      360      365
Leu Ile Glu Asn Ala Val Lys Tyr Ser Pro Glu Gly Gly Arg Ile Glu
370      375      380
Val Gln Leu Gln Ser Arg Asp Lys Cys Ala Gln Leu Arg Val Ser Asp
385      390      395      400
Ala Gly Pro Gly Ile Pro Ile Glu Leu Arg Glu Arg Val Phe Asp Arg
405      410      415
Phe Phe Arg Asp Pro Asn Gln Thr Glu Ser Gly Ser Gly Leu Gly Leu
420      425      430
Ala Ile Val Lys Ala Val Thr Gln Gln His Asn Gly Arg Val Asn Leu

```

435 440 445
 Ser Thr Ser Ala Glu Gly Gly Leu Met Val Thr Val Asp Phe Pro Asn
 450 455 460
 Pro Ala Phe Ala
 465

<210> 10101
 <211> 107
 <212> PRT
 <213> Enterobacter cloacae

<400> 10101
 Lys Arg Val Thr Phe Lys Cys Asn Lys Gln Arg Cys Phe Leu Met Arg
 1 5 10 15
 Gly Val Gly Gly Ser Lys Met Asn Thr Gly Ala Phe Ile His Asp Leu
 20 25 30
 Leu Asp Trp Ile Asp Asn Asn Leu Asp Ser Arg Leu Asp Ile Glu Thr
 35 40 45
 Val Ser Arg Arg Ala Gly Tyr Ser Lys Trp His Leu Gln Arg Leu Phe
 50 55 60
 Lys Glu His Thr Gly Ser Pro Leu Ala Glu Tyr Ile Arg Ala Gln Lys
 65 70 75 80
 Leu Gln Lys Ser Val Glu Arg Leu Ala His Ser His Glu Pro Ile Leu
 85 90 95
 Tyr Val Asp Leu Thr Thr Gly Lys Arg Ser Ala
 100 105

<210> 10102
 <211> 303
 <212> PRT
 <213> Enterobacter cloacae

<400> 10102
 His Gln Asp Pro Asn Phe Tyr Asn Ser Gly Arg Met Ser Thr Phe Lys
 1 5 10 15
 Pro Leu Lys Ala Leu Thr Ser Arg Arg Gln Val Leu Lys Ala Gly Leu
 20 25 30
 Ala Ala Leu Thr Leu Thr Gly Ile Ala Lys Gln Ala Gln Ala Lys Asp
 35 40 45
 Glu Ser Thr Leu Lys Thr Ser Asn Gly His Ser Lys Pro Lys Thr Lys
 50 55 60
 Lys Ala Gly Ala Lys Arg Leu Val Met Leu Asp Pro Gly His Gly Gly
 65 70 75 80
 Ile Asp Thr Gly Ala Ile Gly Arg Asn Gly Ser Lys Glu Lys His Val
 85 90 95
 Val Leu Ala Ile Ala Lys Asn Val Arg Ala Ile Leu Arg Ser Asn Gly
 100 105 110
 Ile Asp Ala Arg Leu Thr Arg Thr Gly Asp Thr Phe Ile Pro Leu Tyr
 115 120 125
 Asp Arg Val Glu Ile Ala His Lys His Gly Ala Asp Leu Phe Met Ser
 130 135 140
 Ile His Ala Asp Gly Phe Thr Asn Pro Ser Ala Ala Gly Ala Ser Val
 145 150 155 160
 Phe Ala Leu Ser Asn Arg Gly Ala Ser Ser Ala Met Ala Lys Tyr Leu
 165 170 175
 Ser Asp Arg Glu Asn Arg Ala Asp Glu Val Ala Gly Lys Lys Ala Thr
 180 185 190
 Asp Lys Asp His Leu Leu Gln Gln Val Leu Phe Asp Leu Val Gln Thr
 195 200 205
 Asp Thr Ile Lys Asn Ser Leu Thr Leu Gly Ser His Ile Leu Lys Arg
 210 215 220

Ile	Lys	Pro	Val	His	Arg	Leu	His	Ser	Lys	Ser	Thr	Glu	Gln	Ala	Ala
225					230					235					240
Phe	Val	Val	Leu	Lys	Ser	Pro	Ser	Ile	Pro	Ser	Val	Leu	Val	Glu	Thr
				245					250						255
Ser	Phe	Ile	Thr	Asn	Pro	Glu	Glu	Glu	Arg	Leu	Leu	Gly	Thr	Thr	Ala
			260					265					270		
Phe	Arg	Gln	Lys	Ile	Ala	Asn	Ala	Ile	Ala	Ser	Gly	Val	Ile	Ser	Tyr
		275					280					285			
Phe	Asn	Trp	Phe	Asp	Asn	Gln	Lys	Ala	His	Ser	Arg	Lys	Arg		
	290					295					300				

<210> 10103

<211> 664

<212> PRT

<213> Enterobacter cloacae

<400> 10103

Thr	Met	Ser	Arg	Lys	Glu	Leu	Ala	Asn	Ala	Ile	Arg	Ala	Leu	Ser	Met
1				5					10					15	
Asp	Ala	Val	Gln	Lys	Ala	Asn	Ser	Gly	His	Pro	Gly	Ala	Pro	Met	Gly
			20					25					30		
Met	Ala	Asp	Ile	Ala	Glu	Val	Leu	Trp	Asn	Asp	Phe	Leu	Lys	His	Asn
		35					40					45			
Pro	Thr	Asp	Pro	Thr	Trp	Tyr	Asp	Arg	Asp	Arg	Phe	Ile	Leu	Ser	Asn
	50					55					60				
Gly	His	Ala	Ser	Met	Leu	Leu	Tyr	Ser	Leu	Leu	His	Leu	Ser	Gly	Tyr
65					70					75					80
Asp	Leu	Pro	Leu	Glu	Glu	Leu	Lys	Asn	Phe	Arg	Gln	Leu	His	Ser	Lys
				85					90					95	
Thr	Pro	Gly	His	Pro	Glu	Ile	Gly	Tyr	Thr	Pro	Gly	Val	Glu	Thr	Thr
			100					105					110		
Thr	Gly	Pro	Leu	Gly	Gln	Gly	Leu	Ala	Asn	Ala	Val	Gly	Leu	Ala	Ile
	115						120					125			
Ala	Glu	Arg	Thr	Leu	Ala	Ala	Gln	Phe	Asn	Gln	Pro	Asp	His	Glu	Ile
	130					135					140				
Val	Asp	His	Tyr	Thr	Tyr	Val	Phe	Met	Gly	Asp	Gly	Cys	Leu	Met	Glu
145					150					155					160
Gly	Ile	Ser	His	Glu	Val	Cys	Ser	Leu	Ala	Gly	Thr	Leu	Gly	Leu	Gly
			165						170					175	
Lys	Leu	Ile	Gly	Phe	Tyr	Asp	His	Asn	Gly	Ile	Ser	Ile	Asp	Gly	Glu
		180						185					190		
Thr	Glu	Gly	Trp	Phe	Thr	Asp	Asp	Thr	Ala	Lys	Arg	Phe	Glu	Ala	Tyr
	195					200						205			
His	Trp	His	Val	Val	His	Glu	Ile	Asp	Gly	His	Asp	Pro	Glu	Ala	Val
	210					215					220				
Lys	Lys	Ala	Ile	Gln	Glu	Ala	Gln	Ser	Val	Lys	Asp	Lys	Pro	Ser	Leu
225					230					235					240
Ile	Ile	Cys	Arg	Thr	Thr	Ile	Gly	Phe	Gly	Ser	Pro	Asn	Lys	Ala	Gly
			245						250					255	
Lys	Glu	Glu	Ala	His	Gly	Ala	Ala	Leu	Gly	Glu	Glu	Glu	Val	Ala	Leu
		260						265					270		
Thr	Arg	Gln	Lys	Leu	Gly	Trp	Lys	His	Pro	Ala	Phe	Glu	Ile	Pro	Lys
	275					280						285			
Glu	Ile	Tyr	Lys	Ala	Trp	Asp	Ala	Arg	Glu	Thr	Gly	Glu	Lys	Ala	Gln
	290					295					300				
Gln	Ala	Trp	Asn	Glu	Lys	Phe	Ala	Ala	Tyr	Lys	Lys	Ala	Tyr	Pro	Asp
305					310					315					320
Leu	Ala	Ala	Glu	Phe	Thr	Arg	Arg	Met	Ser	Gly	Gly	Leu	Pro	Glu	Asp
			325						330					335	
Trp	Glu	Glu	Lys	Thr	Gln	Ala	Leu	Ile	Glu	Asn	Leu	Gln	Ser	Asn	Pro
			340					345					350		

```
<210> 10104
<211> 565
<212> PRT
<213> Enterobacter cloacae
```

<400> 10104															
Val	Thr	Val	Lys	Arg	Pro	Val	Ser	Gly	Ser	Leu	Ala	Arg	Ala	Phe	
1			5						10					15	
Ser	Met	Ile	Val	Leu	Ser	Val	Leu	Ile	Ser	Ala	Ile	Ala	Leu	Val	Thr
		20						25					30		
Leu	Ala	Ser	Ser	Gln	Arg	Asp	Ala	Glu	Ala	Ile	Asn	Ile	Ala	Gly	Ser
		35					40					45			
Leu	Arg	Met	Gln	Ser	Tyr	Arg	Leu	Gly	Tyr	Glu	Met	Gln	Arg	Ala	Ser
	50					55					60				
Pro	Ser	Leu	Ala	Glu	His	Arg	Ala	Val	Trp	Gln	Lys	Thr	Leu	Ser	Ala
65					70					75					80
Pro	Ala	Leu	Gln	Lys	Leu	Asn	Arg	Trp	Tyr	Val	Pro	Glu	Asp	Val	Lys
			85						90					95	
Gln	Arg	Tyr	Gln	Gln	Leu	His	Leu	Gly	Trp	Gln	Glu	Met	Asp	Thr	Arg
		100						105					110		

Ile	Ala	Ser	Gly	Asp	Thr	Gly	Trp	Tyr	Gln	Asn	His	Ile	Glu	Asp	Phe		
	115						120					125					
Val	Gly	Arg	Ile	Asp	Ala	Phe	Val	Leu	Ala	Leu	Gln	His	Tyr	Thr	Glu		
	130					135						140					
His	Lys	Ile	Gln	Leu	Val	Ile	Cys	Met	Ser	Leu	Thr	Gly	Gly	Leu	Gly		
	145				150					155					160		
Ile	Leu	Leu	Leu	Ala	Val	Val	Thr	Leu	Arg	Arg	Ile	Arg	Arg	Gln	Val		
				165					170					175			
Val	Leu	Pro	Leu	Asn	Asn	Leu	Val	Ala	Ala	Ser	Glu	Arg	Ile	Glu	Gln		
			180					185						190			
Gly	Gln	Phe	Asp	Thr	Pro	Ala	Pro	Asp	Thr	Thr	Leu	Pro	Asn	Glu	Leu		
		195					200						205				
Gly	Gln	Leu	Ser	Arg	Ala	Phe	Asn	His	Met	Ser	Ala	Glu	Leu	His	Thr		
	210					215						220					
Leu	Tyr	Arg	Ser	Leu	Glu	His	Ser	Val	Ala	Glu	Lys	Thr	Arg	His	Leu		
	225				230					235					240		
Asn	Glu	Ala	His	Gln	Gln	Leu	Glu	Met	Leu	Phe	Lys	Cys	Ser	Gln	Ala		
				245					250					255			
Leu	Asn	Thr	Gly	Gln	Ile	Asp	Ser	His	Cys	Phe	Arg	His	Ile	Leu	Gln		
			260					265						270			
Ile	Val	His	Asp	Tyr	Thr	Gln	Met	Asn	Tyr	Leu	Gln	Leu	Arg	Thr	Ser		
		275					280						285				
Asp	Asp	Trp	Gln	Leu	Tyr	Glu	Gly	Leu	Glu	Thr	Pro	Gly	Glu	Lys	Met		
	290					295						300					
His	Asn	Leu	Pro	Val	Leu	Met	Gln	Asp	Thr	Leu	Tyr	Gly	Glu	Leu	Arg		
	305				310					315					320		
Trp	Gln	Ser	Ala	Thr	Gly	Asp	Val	Pro	Leu	Pro	Leu	Met	Glu	Ser	Val		
				325					330					335			
Ala	Thr	Met	Leu	Gly	Arg	Gly	Leu	Tyr	Phe	Asn	Gln	Ala	Gln	Lys	His		
			340					345					350				
Tyr	Gln	Gln	Leu	Leu	Leu	Met	Glu	Glu	Arg	Ala	Thr	Ile	Ala	Arg	Glu		
		355					360					365					
Leu	His	Asp	Ser	Leu	Ala	Gln	Val	Leu	Ser	Tyr	Leu	Arg	Ile	Gln	Leu		
	370					375					380						
Thr	Leu	Leu	Lys	His	Ala	Val	Pro	Gly	Asp	Asn	Ala	Pro	Ala	Gln	Ala		
	385				390					395					400		
Ile	Ile	Thr	Asp	Phe	Ser	Arg	Glu	Leu	Asn	Asn	Ala	Trp	His	Gln	Leu		
				405					410					415			
Arg	Glu	Leu	Leu	Thr	Thr	Phe	Arg	Leu	Thr	Leu	Asn	His	Ala	Asn	Leu		
			420						425				430				
Pro	Ala	Ala	Leu	Gln	Glu	Ser	Leu	Asp	Gly	Leu	Gln	Ser	Gln	Thr	Ser		
		435					440					445					
Ala	Lys	Leu	Val	Leu	Asp	Cys	Arg	Leu	Ser	Ser	Leu	Ala	Leu	Asp	Ala		
	450					455					460						
Gln	Lys	Gln	Val	His	Leu	Leu	Gln	Ile	Val	Arg	Glu	Ala	Val	Leu	Asn		
	465				470					475					480		
Ala	Ile	Lys	His	Ala	Asp	Ala	Ser	Glu	Ile	Val	Val	Ser	Cys	Val	Thr		
				485					490					495			
Thr	Ala	Asp	Gly	Thr	His	Thr	Val	Thr	Ile	Arg	Asp	Asn	Gly	Ile	Gly		
		500						505					510				
Ile	Gly	Asp	Ala	Ser	Glu	Pro	Pro	Gly	His	Tyr	Gly	Leu	Asn	Ile	Met		
	515					520						525					
Arg	Glu	Arg	Ala	Gly	Arg	Leu	Gly	Gly	Thr	Leu	His	Phe	Ser	Gln	Pro		
	530					535					540						
Pro	Gln	Gly	Gly	Thr	Gln	Val	Ser	Val	Thr	Phe	Arg	Thr	Pro	Ala	Ala		
	545				550					555					560		
Gln	Ala	Glu	Lys														
					565												

<210> 10105

<211> 1047

<212> PRT

<213> *Enterobacter cloacae*

<400> 10105

```

Arg Ala Ala Lys Arg Gly His Thr Leu Met Ala Asn Phe Phe Ile Asp
1      5      10      15
Arg Pro Ile Phe Ala Trp Val Leu Ala Ile Leu Leu Cys Leu Thr Gly
20      25      30
Val Leu Ala Ile Thr Ser Leu Pro Val Glu Gln Tyr Pro Asp Leu Ala
35      40      45
Pro Pro Asn Val Arg Ile Thr Ala Asn Tyr Pro Gly Ala Ser Ala Gln
50      55      60
Thr Leu Glu Asn Thr Val Thr Gln Val Ile Glu Gln Asn Met Thr Gly
65      70      75      80
Leu Asp Asn Leu Met Tyr Met Ser Ser Gln Ser Ser Ala Thr Gly Gln
85      90      95
Ala Thr Val Thr Leu Ser Phe Thr Ala Gly Thr Asp Pro Asp Glu Ala
100      105      110
Val Gln Gln Val Gln Asn Gln Leu Gln Ser Ala Leu Arg Lys Leu Pro
115      120      125
Gln Ala Val Gln Asn Gln Gly Val Thr Val Arg Lys Thr Gly Asp Thr
130      135      140
Asn Ile Leu Thr Ile Ala Phe Val Ser Thr Asp Gly Ser Met Asp Lys
145      150      155      160
Gln Asp Ile Ala Asp Tyr Val Ala Ser Asn Ile Gln Asp Pro Leu Ser
165      170      175
Arg Ile Asn Gly Val Gly Asp Ile Asp Ala Tyr Gly Ser Gln Tyr Ser
180      185      190
Met Arg Ile Trp Leu Asp Pro Asn Lys Leu Asn Ser Val Gln Met Thr
195      200      205
Ala Lys Asp Val Thr Asp Ala Ile Glu Ser Gln Asn Ala Gln Ile Ala
210      215      220
Val Gly Gln Leu Gly Gly Thr Pro Ser Val Asp Asn Gln Ala Leu Asn
225      230      235      240
Ala Thr Ile Asn Ser Gln Ser Leu Leu Gln Thr Pro Asp Gln Phe Arg
245      250      255
Asn Ile Thr Leu Arg Val Asn Gln Asp Gly Ser Glu Val Arg Leu Gly
260      265      270
Asp Val Ala Thr Val Glu Met Gly Ala Glu Lys Tyr Asp Tyr Leu Ser
275      280      285
Arg Phe Asn Gly Asn Ala Ala Ser Gly Leu Gly Val Lys Leu Ala Ser
290      295      300
Gly Ala Asn Glu Met Ala Thr Ala Gln Arg Val Leu Glu Arg Leu Asp
305      310      315      320
Glu Leu Ser His Tyr Phe Pro His Gly Leu Glu Tyr Lys Val Ala Tyr
325      330      335
Glu Thr Thr Ser Phe Val Lys Ala Ser Ile Glu Asp Val Val Lys Thr
340      345      350
Leu Leu Glu Ala Ile Ala Leu Val Phe Leu Val Met Tyr Leu Phe Leu
355      360      365
Gln Asn Phe Arg Ala Thr Leu Ile Pro Thr Ile Ala Val Pro Val Val
370      375      380
Leu Leu Gly Thr Phe Ala Val Leu Tyr Ala Phe Gly Tyr Ser Ile Asn
385      390      395      400
Thr Leu Thr Met Phe Ala Met Val Leu Ala Ile Gly Leu Leu Val Asp
405      410      415
Asp Ala Ile Val Val Val Glu Asn Val Glu Arg Ile Met Ser Glu Glu
420      425      430
Gly Leu Ser Pro Arg Glu Ala Thr Arg Lys Ser Met Gly Gln Ile Gln
435      440      445
Gly Ala Leu Val Gly Ile Ala Met Val Leu Ser Ala Val Phe Ile Pro

```

450	Met	Ala	Phe	Phe	Gly	Gly	Thr	Thr	Gly	Ala	Ile	Tyr	Arg	Gln	Phe	Ser
465	Ile	Thr	Ile	Val	Ser	Ala	Met	Val	Leu	Ser	Val	Leu	Val	Ala	Met	Ile
				485					490						495	
	Leu	Thr	Pro	Ala	Leu	Cys	Ala	Thr	Leu	Leu	Lys	Pro	Leu	His	Lys	Gly
				500					505					510		
	Glu	His	His	Gly	Gln	Lys	Gly	Phe	Phe	Gly	Trp	Phe	Asn	Arg	Met	Phe
				515				520					525			
	Asn	Arg	Asn	Ala	Ala	Arg	Tyr	Glu	Ala	Gly	Val	Gly	Lys	Val	Leu	His
				530			535					540				
	Arg	Ser	Val	Arg	Trp	Met	Val	Val	Tyr	Val	Leu	Leu	Leu	Gly	Gly	Met
					550					555						560
	Val	Phe	Leu	Phe	Leu	Arg	Leu	Pro	Thr	Ser	Phe	Leu	Pro	Leu	Glu	Asp
				565						570					575	
	Arg	Gly	Met	Phe	Ile	Thr	Ser	Val	Gln	Leu	Pro	Ser	Gly	Ser	Thr	Gln
				580					585					590		
	Gln	Gln	Thr	Leu	Lys	Val	Val	Gln	Lys	Val	Glu	Asn	Tyr	Phe	His	Thr
				595				600					605			
	Gln	Glu	Lys	Asp	Asn	Val	Val	Ser	Val	Phe	Ser	Thr	Val	Gly	Ser	Gly
				610			615					620				
	Pro	Gly	Gly	Asn	Gly	Gln	Asn	Val	Ala	Arg	Met	Phe	Val	Arg	Leu	Lys
				625		630				635						640
	Asp	Trp	Asp	Gln	Arg	Asp	Ser	Asp	Thr	Gly	Ser	Ser	Phe	Ala	Ile	Ile
				645						650					655	
	Glu	Arg	Ala	Thr	Lys	Ala	Phe	Asn	Lys	Ile	Lys	Glu	Ala	Arg	Val	Phe
				660					665					670		
	Ala	Ser	Ser	Pro	Pro	Ala	Ile	Ser	Gly	Leu	Gly	Ser	Ser	Ala	Gly	Phe
				675				680					685			
	Asp	Met	Glu	Leu	Gln	Asp	His	Ala	Gly	Ala	Gly	His	Asp	Ala	Leu	Met
				690			695					700				
	Ala	Ala	Arg	Asp	Lys	Leu	Leu	Glu	Leu	Ala	Gly	Lys	Asp	Pro	Gln	Leu
				705		710				715						720
	Thr	Arg	Val	Arg	His	Asn	Gly	Leu	Asp	Asp	Ser	Pro	Gln	Leu	Gln	Val
				725						730					735	
	Asp	Ile	Asp	Gln	Arg	Lys	Ala	Gln	Ala	Leu	Gly	Val	Ser	Ile	Asp	Asp
				740					745					750		
	Ile	Asn	Asp	Thr	Leu	Gln	Thr	Ala	Trp	Gly	Ser	Ser	Tyr	Val	Asn	Asp
				755			760						765			
	Phe	Met	Asp	Arg	Gly	Arg	Val	Lys	Lys	Val	Tyr	Val	Gln	Ser	Ala	Ala
				770			775					780				
	Lys	Tyr	Arg	Met	Leu	Pro	Asp	Asp	Ile	Asn	Arg	Trp	Tyr	Val	Arg	Asn
				785		790				795						800
	Asn	Thr	Gly	Gly	Met	Val	Pro	Phe	Ser	Ala	Phe	Ala	Thr	Ser	Arg	Trp
				805						810					815	
	Glu	Thr	Gly	Ser	Pro	Arg	Leu	Glu	Arg	Tyr	Asn	Gly	Tyr	Ser	Ala	Leu
				820					825					830		
	Glu	Ile	Val	Gly	Glu	Ala	Ala	Pro	Gly	Val	Ser	Thr	Gly	Thr	Ala	Met
				835				840					845			
	Asp	Ile	Met	Glu	Lys	Leu	Val	Gln	Gln	Leu	Pro	Thr	Gly	Phe	Gly	Leu
				850			855					860				
	Glu	Trp	Thr	Ala	Met	Ser	Tyr	Gln	Glu	Arg	Leu	Ser	Gly	Ala	Gln	Ala
				865		870				875						880
	Pro	Ala	Leu	Tyr	Ala	Leu	Ser	Leu	Leu	Val	Val	Phe	Leu	Cys	Leu	Ala
				885						890					895	
	Ala	Leu	Tyr	Glu	Ser	Trp	Ser	Val	Pro	Phe	Ser	Val	Met	Leu	Val	Val
				900					905					910		
	Pro	Leu	Gly	Val	Ile	Gly	Ala	Leu	Leu	Ala	Thr	Trp	Met	Arg	Gly	Leu
				915				920					925			
	Glu	Asn	Asp	Val	Tyr	Phe	Gln	Val	Gly	Leu	Leu	Thr	Val	Ile	Gly	Leu
				930			935					940				

Ser Ala Lys Asn Ala Ile Leu Ile Val Glu Phe Ala Asn Glu Met Asn
 945 950 955 960
 Ala Lys Gly His Glu Leu Met Ala Ala Thr Leu His Ala Cys Arg Gln
 965 970 975
 Arg Leu Arg Pro Ile Leu Met Thr Ser Leu Ala Phe Val Phe Gly Val
 980 985 990
 Leu Pro Met Ala Thr Ser Ser Gly Ala Gly Ser Ser Ser Gln His Ala
 995 1000 1005
 Val Gly Thr Gly Val Met Gly Gly Met Ile Ser Ala Thr Ile Leu Ala
 1010 1015 1020
 Ile Tyr Phe Val Pro Leu Phe Phe Val Leu Ile Arg Arg Arg Phe Pro
 1025 1030 1035 1040
 Leu Lys Asp Lys Pro Glu
 1045

<210> 10106

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 10106

Val Met Asn Pro Leu Lys Ala Gly Asp Ile Ala Pro Lys Phe Ser Leu
 1 5 10 15
 Pro Asp Gln Asp Gly Glu Gln Val Asn Leu Thr Asp Phe Gln Gly Gln
 20 25 30
 Arg Val Leu Val Tyr Phe Tyr Pro Lys Ala Met Thr Pro Gly Cys Thr
 35 40 45
 Val Gln Ala Cys Gly Leu Arg Asp Asn Met Asp Glu Leu Lys Lys Val
 50 55 60
 Gly Val Glu Val Leu Gly Ile Ser Thr Asp Lys Pro Glu Lys Leu Ser
 65 70 75 80
 Arg Phe Ala Glu Lys Glu Leu Leu Asn Phe Thr Leu Leu Ser Asp Glu
 85 90 95
 Asp His Gln Val Cys Glu Gln Phe Gly Val Trp Gly Glu Lys Ser Phe
 100 105 110
 Met Gly Lys Thr Tyr Asp Gly Ile His Arg Ile Ser Phe Leu Ile Gly
 115 120 125
 Ala Asp Gly Lys Val Glu His Val Phe Asp Asp Phe Lys Thr Ser Asn
 130 135 140
 His His Asp Val Val Leu Lys Trp Leu Lys Glu Asn Ala
 145 150 155

<210> 10107

<211> 544

<212> PRT

<213> Enterobacter cloacae

<400> 10107

Leu Ser Gln Lys Arg Leu Ser Phe Leu Phe His Cys Gln Val Ser Gln
 1 5 10 15
 Asn Pro Asp Glu Trp Asp Phe Leu His Leu Leu Thr Arg Leu His Ser
 20 25 30
 Gln Ser Ser Gly Asp Glu Arg Tyr Ala Gly Ser Ser Val Lys Leu Ala
 35 40 45
 His Pro Lys Tyr Arg Thr Val Val Met Phe Arg Gln Leu Arg Lys Thr
 50 55 60
 Leu Val Ala Thr Leu Ile Ala Ala Val Thr Val Gly Gln Val Leu Pro
 65 70 75 80
 Ala Phe Ala Asp Ser Ser Asp Ser Leu Pro Asp Met Gly Thr Thr Ala
 85 90 95
 Gly Ser Thr Leu Ser Ile Gly Gln Glu Met Gln Met Gly Asp Tyr Tyr

```
<210> 10108
<211> 469
<212> PRT
<213> Enterobacter cloacae
```

<400> 10108

Pro Ile Ser Pro Phe Ala Arg Arg Ala Ser Leu Ile Ile His Arg His
 1 5 10 15
 Asn Ile Asn Asn Thr Ser Gln Ser Cys Thr Glu Phe Thr Met Asn Asn
 20 25 30
 Val Leu Gly Phe Leu Glu Ala Lys Leu Met Pro Leu Ala Ala Lys Thr
 35 40 45
 Ala Gln Gln Arg His Leu Gly Ala Ile Arg Gly Ala Tyr Val Ser Phe
 50 55 60
 Met Pro Phe Ile Ile Val Gly Ser Ile Leu Leu Val Ile Ser Ser Phe
 65 70 75 80
 Pro Asn Gln Ala Tyr Gln Gln Phe Met Ser Gln Ala Phe Gly Glu Ser
 85 90 95
 Trp Ser Ala Ile Ile Glu Ile Pro Phe Asn Ala Val Phe Ser Thr Met
 100 105 110
 Ser Leu Phe Ile Ser Phe Leu Val Ala Tyr Arg Leu Ala Glu His Tyr
 115 120 125
 Gly Glu Asp Arg Ile Ser Cys Gly Ile Leu Ala Leu Val Ala Phe Leu
 130 135 140
 Ile Leu Thr Pro Phe Ile Lys Val Ala Glu Asn Gly Gly Ile Thr Val
 145 150 155 160
 Met Pro Val Glu Trp Ile Gly Ser Lys Gly Leu Phe Val Ala Met Ile
 165 170 175
 Gly Ser Leu Leu Trp Thr Glu Leu Phe Cys Trp Leu Lys Arg Lys Lys
 180 185 190
 Leu Val Ile Lys Met Pro Asp Gly Val Pro Pro Ala Val Gln Glu Ser
 195 200 205
 Phe Ala Ala Leu Ile Pro Ala Leu Leu Val Met Ile Leu Val Leu Leu
 210 215 220
 Ile Arg Ile Ile Phe Glu Asn Thr His Tyr His Thr Ile His Gln Phe
 225 230 235 240
 Ile Tyr Glu Val Val Ala Thr Pro Val Arg His Tyr Gly Thr Ser Tyr
 245 250 255
 Phe Gly Ala Leu Met Thr Val Phe Ser Ile Thr Ile Leu Trp Ser Val
 260 265 270
 Gly Ile Asn Ser Gly Ser Met Ile Asn Gly Ile Ile Arg Pro Leu Trp
 275 280 285
 Met Glu Asn Gln Thr Asp Asn Ile Ala Ala Ile Gln Ala Gly Thr Thr
 290 295 300
 Pro Pro His Ile Ile Thr Glu Gln Phe Phe Asp Met Ile Trp Met Gly
 305 310 315 320
 Gly Ala Gly Ala Thr Leu Ser Leu Val Ile Ala Met Leu Ile Phe Ala
 325 330 335
 Arg Ser Lys Asn Met Arg Glu Val Ala Arg Leu Gly Ala Gly Ala Ser
 340 345 350
 Val Phe Asn Ile Asn Glu Pro Ile Leu Phe Gly Leu Pro Val Ile Met
 355 360 365
 Asn Pro Ile Met Leu Ile Pro Phe Asn Leu Val Pro Leu Val Leu Val
 370 375 380
 Thr Val Gln Tyr Ala Ala Met Lys Ile Gly Ala Val Ala Val Thr Thr
 385 390 395 400
 Gly Val Phe Ile Pro Trp Thr Leu Pro Pro Val Ile Ser Gly Phe Ile
 405 410 415
 Val Thr Gly His Leu Ser Gly Ser Val Met Gln Leu Ile Asn Leu Leu
 420 425 430
 Ile Gly Ala Met Leu Tyr Leu Pro Phe Met Arg Ile Leu Asp Lys Gln
 435 440 445
 Tyr Arg Ala Ala Glu Ile Ala Ser Val Thr Gln Thr Asp Thr Thr Leu
 450 455 460
 Ala Lys Gln Glu
 465

<210> 10109
 <211> 320
 <212> PRT
 <213> Enterobacter cloacae

<400> 10109
 Ser Met Trp Gly Ile Ile Ala Thr Trp Arg Met Ala Leu Glu Gly Val
 1 5 10 15
 Thr Glu Ser Ala Ser Ala Leu Ala Ala Gly Lys Pro Val Ala Ala Ala
 20 25 30
 Val Val Asp Ala Val Ala Ala Val Glu Asp Phe Pro Leu Tyr Lys Ser
 35 40 45
 Val Gly Tyr Gly Gly Leu Pro Thr Glu Asn Gly Glu Val Glu Leu Asp
 50 55 60
 Ala Ala Tyr Met Asp Gly Asp Thr Leu Ala Phe Gly Ala Val Gly Asn
 65 70 75 80
 Leu Val Asp Ile Ala Asn Pro Val Arg Val Ala His Ala Leu Ser Arg
 85 90 95
 Gln Arg Tyr Asn Ser Leu Leu Val Gly Gln Gly Ala Arg Glu Trp Ala
 100 105 110
 Leu Ser Gln Gly Phe Ala Asp Lys Thr Met Leu Thr Asp Arg Ala Met
 115 120 125
 Gln His Tyr Arg Lys Arg Cys Arg Glu Thr Leu Asp Lys Gly Leu Ser
 130 135 140
 Pro Tyr Asp Gly His Asp Thr Val Gly Ile Ile Gly Leu Asp Lys Gln
 145 150 155 160
 Gly Ser Met Ser Val Ala Thr Ser Thr Ser Gly Leu Phe Met Lys Lys
 165 170 175
 Arg Gly Arg Leu Gly Asp Ser Pro Ile Ile Gly Ser Gly Phe Tyr Cys
 180 185 190
 Asp Ser Glu Thr Gly Ala Ala Thr Ala Thr Gly Val Gly Glu Asp Leu
 195 200 205
 Met Lys Gly Cys Thr Ser Tyr Glu Ile Val Arg Arg Met Ala Gln Gly
 210 215 220
 Met Thr Pro Gln Gln Ala Ala Asp Ser Val Val Phe Glu Leu Glu Asp
 225 230 235 240
 Lys Leu Met Ser Arg Phe Gly Arg Ala Gly Asp Leu Ser Val Val Cys
 245 250 255
 Met Asn Ser Lys Gly Glu Phe Gly Ala Ala Thr Asn Ile Lys Thr Phe
 260 265 270
 Ser Phe Val Val Ala Thr Ala Arg Gln Pro Leu Thr Val Phe Arg Thr
 275 280 285
 Glu Arg Leu Arg Glu Lys Thr His Tyr His Ala Val Asp Asp Glu Trp
 290 295 300
 Met Gln Ala Tyr Ala Ala Arg Ile Arg Ala Pro Ile Glu Glu Leu
 305 310 315 320

<210> 10110
 <211> 243
 <212> PRT
 <213> Enterobacter cloacae

<400> 10110
 Tyr Arg Phe Phe Phe Ser Cys Ser Ser Cys Thr Val Asp Thr Val Thr
 1 5 10 15
 Asn Val Lys Ile Leu Leu Ile Glu Asp Asp Leu Asp Leu Gly Asn Gly
 20 25 30
 Val Arg Ile Ala Leu Ala Asp Gln Gly Phe Asp Val Ile Trp Val Arg
 35 40 45
 Arg Lys Glu Asp Ala Leu His Gln Leu Gly Ile Cys Val Pro Glu Leu

```

      50              55              60
Ile Leu Leu Asp Leu Gly Leu Pro Asp Gly Asp Gly Met Ser Leu Met
65      70      75      80
Thr Arg Leu Arg Gln Gln Leu Lys Gly Val Pro Val Ile Ile Leu Thr
      85      90      95
Ala Arg Gly Thr Leu Gln Asp Arg Leu Cys Gly Leu Asp Ala Gly Ala
      100      105      110
Asp Asp Tyr Leu Val Lys Pro Phe Val Leu Ala Glu Leu Leu Ala Arg
      115      120      125
Val Arg Ala Leu Ala Arg Arg Ser Tyr Gly Phe Glu Asn Glu Ala Ile
      130      135      140
Glu Ile Arg Gly Leu Ser Leu His Ile Pro Thr Arg Arg Val Thr Val
145      150      155      160
Ser Ala Arg His Val Glu Leu Thr Ala Ser Glu Tyr Ala Leu Leu Glu
      165      170      175
Thr Leu Met Leu Arg Ala Asp Arg Val Leu Thr Arg Arg Tyr Leu Glu
      180      185      190
Glu Arg Leu Phe Gly Thr Lys Glu Asn Leu Ser Asn Ala Leu Asp Val
      195      200      205
His Met Gly Asn Leu Arg Arg Lys Ile Gly Asp Gly Phe Val Arg Thr
210      215      220
Val Arg Gly Val Gly Tyr Val Ile Asp Thr Val Pro Val Gln Lys Ala
225      230      235      240
Ala Gly

```

<210> 10111

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 10111

```

Ile Ser Pro Arg Phe Ser Ala Phe Ile Ser Leu Thr Ser Leu Ile Met
1      5      10      15
Gly Ile Ser Phe Leu Asp Ser Arg Glu Gln Gly Arg Leu Ser Ser Phe
      20      25      30
Ile Arg His Lys Asp Leu Gln Lys Met Asn Asn His Phe Arg Cys Ile
      35      40      45
Gly Ile Val Gly His Pro Arg His Pro Thr Ala Leu Thr Thr His Glu
      50      55      60
Met Leu Tyr Arg Trp Leu Cys Gly Lys Gly Tyr Glu Val Met Val Glu
65      70      75      80
Gln Gln Ile Ala Gln Glu Leu Gln Leu Lys Ser Val Arg Thr Gly Thr
      85      90      95
Leu Ala Glu Ile Gly Gln Gln Ala Asp Leu Ala Val Val Val Gly Gly
      100      105      110
Asp Gly Asn Met Leu Gly Ala Ala Arg Thr Leu Ala Arg Tyr Asp Ile
      115      120      125
Lys Val Ile Gly Val Asn Arg Gly Asn Leu Gly Phe Leu Thr Asp Leu
130      135      140
Asp Pro Asp Asn Ala Gln Gln Gln Leu Ala Asp Val Leu Glu Gly His
145      150      155      160
Tyr Ile Ser Glu Lys Arg Phe Leu Leu Glu Ala Gln Val Cys Gln Gln
      165      170      175
Asp Cys Gln Lys Arg Ile Ser Thr Ala Ile Asn Glu Val Val Leu His
      180      185      190
Pro Gly Lys Val Ala His Met Ile Glu Phe Glu Val Tyr Ile Asp Glu
195      200      205
Ile Phe Ala Phe Ser Gln Arg Ser Asp Gly Leu Ile Ile Ser Thr Pro
210      215      220
Thr Gly Ser Thr Ala Tyr Ser Leu Ser Ala Gly Gly Pro Ile Leu Thr

```

```

225          230          235          240
Pro Ser Leu Asp Ala Ile Thr Leu Val Pro Met Phe Pro His Thr Leu
          245          250          255
Ser Ala Arg Pro Leu Val Ile Asn Gly Asp Ser Thr Ile Arg Leu Arg
          260          265          270
Phe Ser His Arg Arg Ser Asp Leu Glu Ile Ser Cys Asp Ser Gln Ile
          275          280          285
Ala Leu Pro Ile Gln Glu Gly Glu Asp Val Leu Ile Arg Arg Cys Asp
          290          295          300
Tyr His Leu Asn Leu Ile His Pro Lys Asp Tyr Ser Tyr Phe Asn Thr
305          310          315          320
Leu Ser Ser Lys Leu Gly Trp Ser Lys Lys Leu Phe
          325          330

```

<210> 10112

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 10112

```

Thr Ser Ser Leu Thr Gly Tyr Asn Pro Leu Ile Leu Lys Arg Phe Lys
1          5          10          15
Thr Met Phe Gln Ala Leu Leu Arg Arg Arg Glu Ala Arg Leu Phe Phe
          20          25          30
Ile Ile Ser Ile Leu Phe Phe Ile Cys Ile His Ser Ile Asp Ala Phe
          35          40          45
Leu Ala Pro Met Met Ile Asn Gln Gly Ile Glu Pro Gln Ile Met Gly
          50          55          60
Ile Ile Met Gly Ala Ser Gly Leu Ala Thr Leu Leu Ile Arg Phe Pro
65          70          75          80
Leu Gly Ile Ile Ser Asp Val Val Lys Ser Arg Arg Ile Phe Ile Gln
          85          90          95
Ile Gly Leu Leu Leu Pro Ile Ile Ala Trp Pro Ile Ala Trp Leu Glu
          100          105          110
Pro Asn Ala Ile Thr Leu Tyr Leu Ala Lys Ala Ala Asp Gly Val Thr
          115          120          125
Ala Ala Thr Trp Val Leu Tyr Asn Ile Leu Phe Met Arg Tyr Phe Gly
          130          135          140
Arg Asn Glu Ala Pro Ala Val Ala Leu Leu Ala Leu Ala Gly Pro
145          150          155          160
Ile Gly Val Phe Leu Gly Asn Cys Ile Gly Ala Val Leu Ile His Tyr
          165          170          175
Phe Ala Asn Asn Ile Ala Phe Phe Val Ser Cys Ile Ser Ala Leu Val
          180          185          190
Ala Leu Ile Leu Thr Thr Arg Ile Gln Asp Val His Asp Pro Val Gln
          195          200          205
Ala Pro Thr Leu Lys Ala Cys Ile Thr Gly Ala Arg Gln Gln Leu Ala
          210          215          220
Asp Arg Ser Val Trp Leu Ile Gly Ile Leu Ala Thr Val Val Ile Leu
225          230          235          240
Val Pro Phe Ala Thr Arg Asp Thr Leu Thr Pro Val Tyr Ala Glu Gln
          245          250          255
Leu Gly Ala Arg Ala Gly Ile Leu Ala Leu Leu Gly Asn Ile His Leu
          260          265          270
Leu Phe Tyr Gly Leu Ala Ile Ala Leu Cys Ser Ser Val Phe Tyr Gln
          275          280          285
Arg Leu Gly Leu Val Lys Thr Ala Val Leu Gly Ile Val Leu Gln Val
          290          295          300
Ile Ser Thr Phe Gly Ile Pro Phe Thr Ser Asn Met Tyr Val Ile Tyr
305          310          315          320
Leu Trp Gln Ala Leu Ala Gly Phe Ser Phe Gly Met Ala Phe Ala Ala

```



```
<210> 10113
<211> 461
<212> PRT
<213> Enterobacter cloacae
```

<400>	10113																
1	Pro	Phe	Pro	Gly	Ser	Pro	Gly	Gly	Gln	Leu	Thr	Ser	Glu	Lys	Ser	15	
Lys	Glu	Lys	Arg	Val	Ser	Trp	Lys	Leu	Lys	Thr	Gly	Lys	Ser	Thr	Glu	20	
Glu	Arg	Gln	Gln	Ala	Asn	Gln	Gln	Ile	Arg	Glu	Thr	Val	Glu	Gln	Ile	30	
Leu	Ala	Asp	Ile	Glu	Lys	Arg	Gly	Asn	Lys	Ala	Ile	Arg	Glu	Leu	Ser	40	
65	Lys	Phe	Asp	Arg	Tyr	Asp	Arg	Gln	Asp	Tyr	Arg	Leu	Thr	Ser	Ala	50	
Glu	Ile	Asp	Arg	Cys	Ile	Lys	Gln	Leu	Ser	Arg	Gln	Asp	Ile	Gln	Asp	60	
Ile	Glu	Phe	Ala	Gln	Gln	Gln	Val	Ala	Asn	Phe	Ala	Arg	Ala	Gln	Lys	70	
Glu	Cys	Leu	Arg	Asp	Leu	Glu	Ile	Glu	Thr	Arg	Pro	Gly	Val	Ile	Leu	80	
Gly	His	Lys	Asn	Ile	Pro	Ile	Asn	Ala	Val	Gly	Cys	Tyr	Val	Pro	Gly	90	
145	Lys	Tyr	Pro	Leu	Leu	Ala	Ser	Ala	His	Met	Ser	Ile	Ile	Thr	Ala	100	
Ser	Val	Ala	Gly	Cys	Ser	Arg	Ile	Ile	Ser	Cys	Ala	Pro	Pro	Phe	Asn	110	
Gly	Gln	Pro	Ala	Pro	Ala	Ile	Val	Ala	Ala	Gln	Lys	Met	Ala	Gly	Ala	120	
Thr	Glu	Ile	Tyr	Ala	Leu	Gly	Gly	Ile	Gln	Ala	Ile	Gly	Ala	Met	Ala	130	
Leu	Gly	Thr	Asp	Ser	Leu	Ala	Pro	Val	Asp	Met	Leu	Val	Gly	Pro	Gly	140	
Asn	Ala	Phe	Val	Ala	Glu	Ala	Lys	Arg	Gln	Leu	Phe	Gly	Arg	Val	Gly	150	
Ile	Asp	Leu	Phe	Ala	Gly	Pro	Thr	Glu	Thr	Leu	Val	Ile	Ala	Asp	Asp	160	
Thr	Val	Asp	Ala	Glu	Met	Cys	Ala	Thr	Asp	Leu	Leu	Gly	Gln	Ala	Glu	170	
His	Gly	Val	Thr	Thr	Pro	Ala	Ile	Leu	Leu	Thr	Asn	Ser	Leu	Gln	Leu	180	
Ala	Lys	Glu	Thr	Leu	Ser	Glu	Val	Glu	Arg	Leu	Leu	Glu	Lys	Leu	Pro	190	
Thr	Ala	Asp	Ile	Ala	Arg	Gln	Ser	Trp	Gln	Asp	Tyr	Gly	Glu	Ile	Ile	200	
305	Val	Cys	Asp	Ser	His	Glu	Glu	Met	Leu	Leu	Glu	Ala	Asp	Arg	Ile	210	

				325					330					335			
Ser	Glu	His	Val	Gln	Val	Met	Thr	Asp	Arg	Asp	Asp	Trp	Phe	Leu	Ala		
			340					345					350				
Asn	Leu	Thr	Asn	Tyr	Gly	Ala	Leu	Phe	Leu	Gly	Pro	Arg	Thr	Asn	Val		
			355					360					365				
Ala	Tyr	Gly	Asp	Lys	Val	Ile	Gly	Thr	Asn	His	Thr	Leu	Pro	Thr	Gln		
			370				375					380					
Lys	Ala	Ala	Arg	Tyr	Thr	Gly	Gly	Leu	Trp	Val	Gly	Lys	Phe	Met	Lys		
385					390					395					400		
Thr	Cys	Thr	Phe	Gln	Lys	Val	Leu	Ser	Asp	Glu	Ala	Thr	Ala	Glu	Ile		
				405					410					415			
Gly	Ser	Tyr	Cys	Ser	Arg	Leu	Ser	Leu	Leu	Glu	Gly	Phe	Ala	Gly	His		
			420					425					430				
Ala	Glu	Gln	Ala	Asn	Ile	Arg	Val	Arg	Arg	Tyr	Gly	Gln	Thr	Glu	Val		
			435				440						445				
Pro	Tyr	Ala	Thr	Pro	Ala	Pro	Val	Arg	Glu	Lys	Val						
	450					455					460						

<210> 10114

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 10114

Ala	Met	Thr	Leu	Leu	Gln	Thr	Pro	Ser	Phe	Thr	Leu	His	Gly	Lys	Arg		
1				5					10					15			
Ala	Leu	Val	Thr	Gly	Gly	Ser	Arg	Gly	Ile	Gly	Phe	Ala	Ala	Ala	Val		
			20					25					30				
Ala	Leu	Ala	Gln	Ala	Gly	Ala	Glu	Val	Trp	Ile	Ala	Ala	Arg	Gly	Arg		
		35					40					45					
Glu	Ala	Leu	Ala	His	Ala	Ala	Gly	Leu	Ala	Ala	Glu	His	Ser	Leu	Ala		
	50				55						60						
Phe	His	Pro	Leu	Glu	Leu	Asp	Ile	Thr	Asp	Ala	Gln	Glu	Val	Glu	Arg		
65				70					75					80			
Val	Leu	Ala	Thr	Leu	Pro	Thr	Pro	Asp	Ile	Leu	Val	Asn	Ser	Ala	Gly		
			85					90					95				
Leu	Ala	Arg	His	Gln	Pro	Phe	Leu	Glu	Val	Asn	Glu	Glu	Asn	Phe	Asp		
			100					105					110				
Ala	Val	Met	Ala	Leu	Asn	Leu	Arg	Ala	Thr	Phe	Phe	Ile	Ser	Gln	His		
		115					120					125					
Val	Ala	Arg	Arg	Met	Arg	Ala	Gly	Gly	Lys	Gly	Gly	Ser	Ile	Ile	His		
		130				135					140						
Ile	Ser	Ser	Gln	Met	Gly	His	Val	Gly	Gly	Pro	Glu	Arg	Ser	Val	Tyr		
145				150						155				160			
Cys	Ala	Ser	Lys	Phe	Ala	Leu	Glu	Gly	Leu	Thr	Arg	Thr	Met	Ala	Leu		
			165					170					175				
Glu	Leu	Gly	Asp	Ala	Gly	Ile	Arg	Val	Asn	Thr	Leu	Cys	Pro	Thr	Phe		
			180					185					190				
Ile	Glu	Thr	Asp	Leu	Thr	Arg	Ser	Ser	Leu	Ala	Asp	Pro	Ala	Phe	Arg		
		195					200					205					
Arg	Tyr	Val	Leu	Asp	Asn	Ile	Lys	Leu	Arg	Arg	Pro	Gly	Arg	Leu	Glu		
		210			215						220						
Asp	Ile	Met	Gly	Pro	Val	Phe	Leu	Ala	Ser	Asp	Ala	Ala	Gly	Leu			
225				230				235					240				
Ile	Thr	Gly	Ser	Ala	Leu	Met	Val	Asp	Gly	Gly	Trp	Thr	Ala	Thr			
			245					250					255				

<210> 10115

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 10115

Thr Met Lys Ile Asp Leu Asn Leu Leu Pro Leu Phe Leu Ala Val Ala
 1 5 10 15
 Glu Glu Arg Ser Phe Ser Ala Ala Ala Gly Arg Leu Gly Ile Thr Arg
 20 25 30
 Ser Ala Val Ser Gln Gly Ile Arg Arg Leu Glu Asp Gly Phe Gln Thr
 35 40 45
 Leu Leu Val Met Arg Thr Thr Arg Ser Val Arg Leu Thr Glu Ala Gly
 50 55 60
 Glu Arg Leu His Lys Ser Leu Leu Gly Pro Ile Ala Asn Ile Glu Ala
 65 70 75 80
 Ala Phe Asp Asp Val Thr Ser Asp Ser Met Pro Arg Gly Gln Leu Arg
 85 90 95
 Ile Ala Val Thr Ser Ile Ala Glu Ala Phe Leu Ser Gly Pro Leu Leu
 100 105 110
 Ala Ser Phe Thr Ala Ala His Pro Ala Val Ser Leu Asp Val Phe Val
 115 120 125
 Ser Asp Glu Glu Phe Asp Ile Val Ala Ala Gly Tyr Asp Ala Gly Val
 130 135 140
 Arg Leu Gly Glu Val Ile Glu Lys Asp Met Ile Ala Ile Pro Leu Thr
 145 150 155 160
 Gly Gln Gln Arg Glu Arg Val Val Ala Ser Pro Ser Tyr Leu Ala Thr
 165 170 175
 His Ser Ala Pro Ala His Pro Arg Glu Leu Val Ala His Arg Cys Ile
 180 185 190
 Gly Trp Arg Pro Ser Pro Asp Val Ala Pro Tyr Arg Trp Glu Phe Glu
 195 200 205
 Glu Ala Gly Val Pro Phe Asp Val Ala Ile Glu Pro Gln Ile Thr Thr
 210 215 220
 Asn Asp Leu Arg Leu Met Leu Ser Leu Ala Leu Ala Gly Gly Gly Ile
 225 230 235 240
 Thr Phe Ala Thr Glu Asp Thr Phe Thr Pro Tyr Ile Glu Ser Gly Gln
 245 250 255
 Leu Val Ser Leu Leu Asp Ala Phe Leu Pro Ser Phe Pro Gly Phe Tyr
 260 265 270
 Leu Tyr Phe Pro Gln Arg His Asn Met Ala Pro Lys Leu Arg Ala Leu
 275 280 285
 Ile Glu His Ile Arg Gln Trp Arg Gln Leu Pro Ala Thr Gln Pro Thr
 290 295 300
 Gln Arg
 305

<210> 10116

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 10116

Thr Gly Ser Ile Arg Ser Pro Ser Ser Arg Ala Met Arg Pro Val Thr
 1 5 10 15
 Pro Ala His His Gln Pro Ala Leu Pro Leu Pro Ser Ile Pro Pro Arg
 20 25 30
 His Gln Arg Pro Pro Leu Thr Pro Ser Pro Ile Thr Trp Gly Pro Cys
 35 40 45
 Ser Phe Arg Leu Thr Ala Gly Thr Pro Pro Thr Thr Arg Cys Arg Ser
 50 55 60
 Cys Arg Glu Pro His Arg Thr Ala Pro Pro Ser Arg Ser Met Thr Glu
 65 70 75 80
 Pro Pro Cys Ser Ala Arg Arg Cys Ser Thr Ala Ala Ala Ala Gly Ala
 85 90 95

400> 10118																
Gly	Gln	Asp	Met	Gly	Lys	Lys	Met	Pro	Tyr	Trp	Trp	Leu	Ser	Cys	Cys	
1				5					10					15		
Leu	Ile	Ser	Val	Pro	Ala	Ile	Ala	Ala	Asn	Pro	Ala	Ala	Met	Ile	Asn	
			20					25					30			
Thr	Gly	Gln	Leu	Ser	Glu	Thr	Gln	Glu	Leu	Pro	Ser	Leu	Asn	Gly	Arg	
		35					40					45				
Val	Ala	Pro	Val	Ala	Ser	Lys	Ala	Ala	Pro	Gly	Thr	Leu	Gln	Leu	Asn	
	50					55					60					
Glu	Ala	Val	Asn	Arg	Ala	Val	Thr	Trp	His	Pro	Ala	Ile	Ser	Glu	Ala	
65					70					75					80	
Val	Gly	Lys	Leu	Tyr	Gln	Gln	Ser	Glu	Asn	Val	Asp	Val	Ala	Lys	Ser	
				85					90					95		
Lys	Tyr	Tyr	Pro	Gln	Ile	Asn	Ala	Gly	Met	Asp	Asn	Gly	Tyr	Ser	His	
			100					105					110			
Asp	Gly	Asp	Asp	Asn	Gly	Phe	Thr	Pro	Ser	Leu	Val	Leu	Ser	Leu	Ser	
		115					120					125				
Gln	Met	Leu	Tyr	Asp	Phe	Gly	Lys	Val	Ala	Ser	Gln	Val	Arg	Ala	Glu	
	130					135					140					
Asn	Ala	Gly	Val	Ala	Gln	Gln	Gln	Ala	Asn	Val	Leu	Val	Ser	Ile	Asp	
145					150					155					160	
Thr	Ile	Ala	His	Asp	Thr	Ala	Ile	Ala	Met	Val	Gln	Val	Gln	Thr	Trp	
				165					170					175		
Gln	Gln	Met	Val	Glu	Thr	Ala	Lys	Glu	Gln	Leu	Asp	Ala	Leu	Ser	Ser	
			180					185					190			
Ile	Gly	Thr	Leu	Thr	Lys	Gln	Arg	Asn	Asp	Glu	Gly	Ala	Thr	Ser	Leu	
		195					200				205					
Ser	Asp	Val	Val	Gln	Thr	Asp	Ala	Arg	Ile	Glu	Gly	Ala	Arg	Ala	Gln	
	210					215				220						
Leu	Met	Gln	Tyr	Gln	Ala	Ser	Leu	Asp	Ser	Ser	Arg	Ala	Thr	Leu	Met	
225					230					235				240		
Ser	Leu	Leu	Gly	Asp	Ser	Leu	Asn	Ala	Val	Ser	Asn	Asp	Phe	Pro		
			245					250					255			
Gln	Ser	Leu	Ala	Arg	Ser	Cys	Asp	Ile	Ala	Glu	Pro	Asp	Asp	Arg	Leu	
			260					265					270			
Val	Pro	Ser	Val	Leu	Ala	Ala	Trp	Ala	Gln	Ala	Asn	Val	Ala	Gln	Ala	

275 280 285
 Asn Leu Asp Tyr Ala Asn Ala Gln Met Thr Pro Thr Val Ser Leu Glu
 290 295 300
 Pro Glu Val Arg His Tyr Leu Asn Asp Arg Tyr Ala Gly Asn Glu Thr
 305 310 315 320
 Arg Asp Arg Thr Gln Tyr Ser Ala Trp Val Lys Val Gln Met Pro Leu
 325 330 335
 Tyr Gln Gly Gly Gly Leu Thr Ala Arg Arg Asn Ala Ala Gly His Ala
 340 345 350
 Val Glu Ser Ala Gln Ser Thr Ile Gln Arg Thr Arg Leu Glu Val Arg
 355 360 365
 Gln Lys Leu Leu Glu Ala Arg Ser Gln Val Met Ser Leu Met Ser Thr
 370 375 380
 Leu Gln Ile Gln Gly Arg Gln Glu Ala Leu Ser Ala Arg Thr Arg Glu
 385 390 395 400
 Leu Tyr Gln Gln Gln Tyr Leu Asp Leu Gly Ser Arg Pro Leu Leu Asp
 405 410 415
 Val Leu Asn Ala Glu Gln Glu Val Tyr Gln Ala Arg Phe Thr Gln Gln
 420 425 430
 Gln Thr Ala Gly Gln Leu His Gln Leu Gln Leu Asn Cys Leu Tyr Asn
 435 440 445
 Thr Gly Arg Leu Arg His Ala Phe Asp Leu Glu Asn Arg Thr Ile Gln
 450 455 460
 Thr Val Glu Ile Gln Pro
 465 470

<210> 10119

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10119

Arg Arg Pro Lys Arg Gly Trp Thr Ala Leu Cys Ser Cys Arg Pro Arg
 1 5 10 15
 Thr Ser Ala Lys Arg His Arg Ser Ala Arg Thr Cys Cys Ala Ala Thr
 20 25 30
 Ile Phe Ser Ser Arg Arg Ser Ser Ala Ile Thr Arg Lys Ile Pro Ala
 35 40 45
 Trp Arg Cys Ala Leu Thr Ala Trp Arg Ser Lys Arg Ala Lys Lys Trp
 50 55 60
 Arg Ser Ser Gly Ala Thr Ala Arg Ala Asn Gln Pro Cys Cys Arg Arg
 65 70 75 80
 Trp Arg Ala Gly Trp Ile Trp Arg Ala Val Asn Cys Gly Ser Thr Thr
 85 90 95
 Ser Ala Cys Arg Ile Trp Thr Trp Leu Thr Cys Gly Glu Thr Ser Ala
 100 105 110
 Leu

<210> 10120

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 10120

Thr Thr Ala Val Cys Ser Asn Ser Ser Arg Gln Pro Asp Gly Ser Gly
 1 5 10 15
 Lys Met Lys Ile Ser Gln Arg Asp Val Ala Ala Val Glu Asp Leu Asp
 20 25 30
 Asn Ala Leu Asp Ser Glu Ser Gly Tyr Thr Gly Ala Arg Arg Ile Val
 35 40 45

Phe Phe Ser Leu Val Met Phe Val Val Leu Gly Val Trp Ala Trp Phe
 50 55 60
 Gly Val Leu Asp Glu Val Ser Thr Gly Thr Gly Lys Val Ile Pro Ser
 65 70 75 80
 Ser Arg Glu Gln Val Leu Gln Ser Leu Asp Gly Gly Ile Leu Thr Glu
 85 90 95
 Leu Asn Val His Glu Gly Asp Gln Val Gln Ala Gly Gln Val Leu Ala
 100 105 110
 Arg Leu Asp Pro Thr Arg Ser Glu Ser Asn Val Gly Glu Ser Ala Ala
 115 120 125
 Arg Tyr Arg Ala Ser Leu Ala Ser Ser Ala Arg Leu Tyr Ala Glu Val
 130 135 140
 Asn Asp Leu Pro Leu Lys Phe Pro Pro Ser Leu Glu Lys Trp Thr Asp
 145 150 155 160
 Leu Thr Ala Ala Glu Thr Arg Leu Tyr Asn Ser Arg Arg Ala Gln Leu
 165 170 175
 Glu Asp Thr Gln Arg Glu Leu Arg Ser Ala Leu Ala Leu Ala Asn Lys
 180 185 190
 Glu Leu Ala Ile Thr Gln Arg Leu Val Lys Thr Gly Ala Ala Ser His
 195 200 205
 Val Glu Val Leu Arg Leu Gln Arg Gln Lys Ser Asp Leu Glu Leu Lys
 210 215 220
 Leu Thr Asp Val Arg Ser Gln Tyr Tyr Val Gln Ala Arg Glu Ala Leu
 225 230 235 240
 Ser Lys Ala Asn Ala Glu Val Asp Met Val Ser Ala Ile Leu Lys Gly
 245 250 255
 Arg Glu Asp Ser Val Thr Arg Leu Thr Val Lys Ser Pro Val Arg Gly
 260 265 270
 Ile Val Lys Asn Ile Lys Val Thr Thr Ile Gly Gly Val Ile Pro Pro
 275 280 285
 Asn Gly Glu Leu Met Glu Ile Val Pro Val Asp Asp His Leu Leu Ile
 290 295 300
 Glu Thr Arg Leu Ser Pro Arg Asp Ile Ala Phe Ile His Pro Asn Gln
 305 310 315 320
 Glu Ala Leu Val Lys Ile Thr Ala Tyr Asp Tyr Ala Ile Tyr Gly Gly
 325 330 335
 Leu His Gly Val Val Glu Thr Ile Ser Pro Asp Thr Ile Gln Asp Glu
 340 345 350
 Ala Lys Pro Glu Val Phe Tyr Tyr Arg Val Phe Ile Arg Thr Ser Gln
 355 360 365
 Asp Tyr Leu Val Asn Lys Ala Gly Arg His Phe Ser Ile Val Pro Gly
 370 375 380
 Met Ile Ala Thr Val Asp Ile Lys Thr Gly Glu Lys Thr Val Leu Asp
 385 390 395 400
 Tyr Met Ile Lys Pro Phe Asn Arg Ala Lys Glu Ala Leu Arg Glu Arg
 405 410 415

<210> 10121

<211> 594

<212> PRT

<213> Enterobacter cloacae

<400> 10121

Ala Pro Ser Ser Ala Gly Gln Lys Asn Cys Ser Asp Phe Ala Ser Ser
 1 5 10 15
 Thr Leu Leu Tyr Ile Lys Pro Val Tyr Thr Val Tyr Lys His Ser Tyr
 20 25 30
 Gly Phe Ser Tyr Arg Lys Thr Ile Met Leu Ala Gln Leu Thr Ile Ser
 35 40 45

Asn Phe Ala Ile Val Arg Glu Leu Glu Ile Asp Phe His Ser Gly Met
 50 55 60
 Thr Ala Ile Thr Gly Glu Thr Gly Ala Gly Lys Ser Ile Ala Ile Asp
 65 70 75 80
 Ala Leu Gly Leu Cys Leu Gly Gly Arg Ala Glu Gly Asp Met Val Arg
 85 90 95
 Thr Gly Ala Ala Arg Ala Asp Leu Cys Ala Arg Phe Ser Leu Lys Asp
 100 105 110
 Thr Pro Ala Ala Leu Arg Trp Leu Glu Ala Asn Gln Leu Glu Asp Gly
 115 120 125
 Arg Glu Cys Leu Leu Arg Arg Val Ile Ser Ser Asp Gly Arg Ser Arg
 130 135 140
 Gly Phe Ile Asn Gly Thr Ala Val Pro Leu Ser Gln Leu Arg Glu Leu
 145 150 155 160
 Gly Gln Leu Leu Ile Gln Ile His Gly Gln His Ala His Gln Gln Leu
 165 170 175
 Ile Lys Pro Glu Gln Gln Lys Ala Leu Leu Asp Gly Tyr Ala Gly Glu
 180 185 190
 Tyr Ala Leu Thr Gln Leu Met Ala Glu His Tyr Arg Gln Trp His Gln
 195 200 205
 Ser Cys Arg Glu Leu Ala Gln His Gln Gln Gln Ser Gln Glu Arg Thr
 210 215 220
 Ala Arg Ala Glu Leu Leu Glu Tyr Gln Leu Lys Glu Leu Asn Glu Phe
 225 230 235 240
 Asn Pro Gln Ala Gly Glu Phe Glu Gln Ile Asp Glu Glu Tyr Lys Arg
 245 250 255
 Leu Ala Asn Ser Gly Gln Leu Leu Ser Thr Ser Gln Asn Ala Leu Asn
 260 265 270
 Met Leu Ala Asp Gly Glu Asp Val Asn Leu Gln Ser Gln Leu Tyr Asn
 275 280 285
 Val Arg Gln Leu Val Thr Glu Leu Thr Gly Met Asp Asn Lys Leu Ser
 290 295 300
 Gly Val Leu Glu Met Leu Glu Glu Ala Ala Ile Gln Ile Ser Glu Ala
 305 310 315 320
 Gly Asp Glu Leu Arg His Tyr Cys Glu Arg Leu Asp Leu Asp Pro Asn
 325 330 335
 Arg Leu Phe Glu Leu Glu Gln Arg Ile Ser Arg Gln Ile Ser Leu Ala
 340 345 350
 Arg Lys His His Val Thr Pro Glu Glu Leu Pro Asn Tyr Tyr Gln Ser
 355 360 365
 Leu Leu Glu Glu Gln Gln Gln Leu Asp Asp Gln Ala Asp Ser Leu Glu
 370 375 380
 Thr Leu Ser Leu Ala Val Asn Leu His His Gln Gln Ala Leu Glu Thr
 385 390 395 400
 Ala Lys Arg Leu His Asp Val Arg Gln His Tyr Ala Gln Glu Leu Ser
 405 410 415
 Gln His Ile Thr Asp Ser Met His Thr Leu Ala Met Pro His Gly Val
 420 425 430
 Phe Thr Ile Asp Val Arg Phe Glu Glu Asn His Leu Thr Ala Glu Gly
 435 440 445
 Ala Asp Arg Val Glu Phe Arg Val Thr Thr Asn Pro Gly Gln Pro Leu
 450 455 460
 Gln Ala Ile Ser Lys Val Ala Ser Gly Gly Glu Leu Ser Arg Ile Ala
 465 470 475 480
 Leu Ala Ile Gln Val Ile Thr Ala Arg Lys Met Glu Thr Pro Ala Leu
 485 490 495
 Ile Phe Asp Glu Val Asp Val Gly Ile Ser Gly Pro Thr Ala Ala Val
 500 505 510
 Val Gly Lys Leu Leu Arg Gln Leu Gly Glu Ser Thr Gln Val Met Cys
 515 520 525
 Val Thr His Leu Pro Gln Val Ala Gly Cys Gly His His His Phe Ile

530		535		540	
Val Ser Lys Glu Thr	Asp Gly Glu Met Thr	Glu Thr His Met Lys Pro			
545	550	555	560		
Leu Asp Lys Arg Ser Arg	Leu Gln Glu Leu Ala Arg	Leu Leu Gly Gly			
	565	570	575		
Ser Glu Val Thr Arg	Asn Thr Leu Ala Asn	Ala Lys Glu Leu Leu Ala			
	580	585	590		
Ala					

<210> 10122

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 10122

Ala Ala Tyr Cys Ser Gly Pro Lys Arg Asn Gln Ile Thr Met Arg Cys	
1 5 10 15	
Lys Thr Leu Thr Ala Ala Ala Val Leu Leu Met Leu Thr Ala Gly	
20 25 30	
Cys Ser Thr Leu Glu Lys Val Val Tyr Arg Pro Asp Ile Asn Gln Gly	
35 40 45	
Asn Tyr Leu Thr Pro Asn Asp Val Ser Lys Ile Arg Val Gly Met Thr	
50 55 60	
Gln Gln Gln Val Ala Tyr Ala Leu Gly Thr Pro Met Met Ser Asp Pro	
65 70 75 80	
Phe Gly Thr Asn Thr Trp Phe Tyr Val Phe Arg Gln Gln Pro Gly His	
85 90 95	
Glu Asp Val Thr Gln Gln Thr Leu Thr Leu Thr Phe Ser Ser Ala Gly	
100 105 110	
Val Leu Thr Asn Ile Asp Asn Lys Pro Ala Leu Thr Lys	
115 120 125	

<210> 10123

<211> 278

<212> PRT

<213> Enterobacter cloacae

<400> 10123

Asp Arg Ala Ala Ala Ser Val Asp Asn Gly Val His Thr Val Arg	
1 5 10 15	
Lys Asn Ser Leu Lys Thr Ala Phe Leu Glu Asn Thr Pro Ile Val Asn	
20 25 30	
Gly Trp Leu Ala Ile Pro Ser Gly Tyr Ser Ala Glu Ile Met Gly His	
35 40 45	
Gln Gly Tyr Asp Ala Val Thr Val Asp Leu Gln His Gly Met Ile Asp	
50 55 60	
Phe Ala Ser Ala Leu Ser Met Leu Gln Ala Leu Ser Ala Thr Pro Ala	
65 70 75 80	
Val Pro Leu Val Arg Val Ala Asp Asn Asp Pro Ala Gln Ile Met Arg	
85 90 95	
Val Leu Asp Ala Gly Ala Tyr Gly Val Ile Cys Pro Met Ile Ser Ser	
100 105 110	
Ala Glu Gln Ala Arg Arg Phe Val Ala Ala Cys Arg Tyr Pro Pro Leu	
115 120 125	
Gly Val Arg Ser Phe Gly Pro Ala Arg Gly Leu Leu Tyr Gly Gly Ser	
130 135 140	
Asp Tyr Pro Gln His Ala Asn Asp Glu Ile Leu Thr Leu Ala Met Ile	
145 150 155 160	
Glu Thr Arg Gln Gly Leu Ala Asp Leu Asp Ala Ile Leu Asp Thr Glu	
165 170 175	

Gly Leu Asp Gly Val Phe Ile Gly Pro Asn Asp Leu Ser Leu Thr Leu
 180 185 190
 Thr Gly Ser Ala Ser Ala Glu Ser Gln His Pro Glu Met Leu Ala Ala
 195 200 205
 Ile Glu Arg Val Ile His Cys Cys Arg Gln Gln Gln Lys Ile Ala Gly
 210 215 220
 Ile Phe Cys Thr Ser Gly Ala Ala Ala Ala Arg Ile Ala Gln Gly
 225 230 235 240
 Phe Gln Phe Val Thr Pro Ala Asn Asp Val Met Gln Leu Gly Arg Ala
 245 250 255
 Ser Arg Glu Ala Ile Ala Leu Ala Arg Gly Asn Ala Ile Pro Thr Thr
 260 265 270
 Gly Ala Ser Gly Tyr
 275

<210> 10124

<211> 650

<212> PRT

<213> Enterobacter cloacae

<400> 10124

Pro Leu Trp Asn Tyr Phe Leu Arg His Leu His Leu Leu Tyr Phe Leu
 1 5 10 15
 Phe Thr Asp Val Ile Phe Arg Phe Ala Leu Pro Val Ser Asn Gly Ser
 20 25 30
 Val Ile Asn Asn Tyr Arg Gly Asn Arg Ile Ser Phe Ser Met Asp Phe
 35 40 45
 Tyr Phe Thr Arg Phe Glu His Arg Gln Pro Pro Glu Pro Leu Lys Thr
 50 55 60
 Pro Arg Trp Val Met Leu Thr Trp Gln Val Leu Ala Val Ala Ser Leu
 65 70 75 80
 Ile Leu Gly Ala Asn Tyr Ile Tyr Trp Arg Trp Thr Ala Ser Leu Asn
 85 90 95
 Thr Asp Ala Leu Trp Tyr Ala Ile Pro Leu Val Leu Ala Glu Thr Leu
 100 105 110
 Ala Trp Ile Gly Thr Val Leu Phe Thr Ile Asn Leu Trp Lys Glu Asp
 115 120 125
 Asp Pro Pro Gln Asn Pro Pro Pro Ile Glu Ile Asn Asp Cys Leu Arg
 130 135 140
 Ser Glu Asp Ala Glu Ala Ser Arg Pro Ile Lys Val Asp Leu Phe Ile
 145 150 155 160
 Ala Thr Tyr Ser Glu Asp Val Glu Leu Val Arg Leu Ser Ile Arg Asp
 165 170 175
 Ala Met Lys Met Asp Tyr Pro Gly Pro Leu Asp Tyr Lys Val His Val
 180 185 190
 Leu Asp Asp Gly Arg Arg Pro Glu Met Lys Ala Val Cys Asp Gln Glu
 195 200 205
 Gly Ala Asn Tyr Ile Ser Arg Gln Thr Asn Ile Gly Phe Lys Ala Gly
 210 215 220
 Asn Leu Arg Asn Gly Leu Glu Gln Thr Asp Gly Asp Phe Leu Ile Ile
 225 230 235 240
 Cys Asp Ala Asp Thr Arg Val Phe Pro Thr Leu Leu Ser His Thr Leu
 245 250 255
 Gly Tyr Phe Arg Asp Pro Asp Val Ala Trp Val Gln Thr Pro Gln Trp
 260 265 270
 Phe Phe Asp Leu Pro Glu Gly Glu Asn Leu Ala Arg Trp Leu Gly Arg
 275 280 285
 Lys Ala Gly Lys Thr Gly Tyr Gly Leu Gly Trp Leu Ala Gln Lys Phe
 290 295 300
 Ile Gly Pro Val Thr Ile Gly Arg Asp Pro Phe Phe Asn Asp Pro Arg
 305 310 315 320

Met Phe Tyr Asp Val Ile Leu Arg Arg Arg Asn Trp Ala Asn Ala Ala
 325 330 335
 Phe Cys Cys Gly Ala Ala Ser Ile His Arg Arg Glu Ala Val Met Gln
 340 345 350
 Ala Ala Leu Arg Ser Tyr Val Trp Thr Thr Glu Glu Glu Ile Asp Arg
 355 360 365
 His Thr Arg Asp Ile Arg Asp Pro Val Met Arg Glu Thr Leu Gln Asp
 370 375 380
 Ala Met Arg Pro His Val Ala Phe Asp Thr Glu Leu Thr Pro Tyr Lys
 385 390 395 400
 Phe His Val Ser Glu Asp Ile Tyr Thr Ser Ile Leu Leu His Gly Asp
 405 410 415
 Ala Ala Arg Arg Trp Arg Ser Val Met His Pro Arg Ile Glu Ser Lys
 420 425 430
 Met Leu Ser Pro Gln Asp Met Leu Thr Trp Met Ile Gln Arg Phe Lys
 435 440 445
 Tyr Ala Ala Gly Ser Leu Asp Ile Leu Phe His Asp Asn Ile Phe Ser
 450 455 460
 Arg Arg Arg Phe Lys Leu Ser Leu Pro Gln Thr Leu Met Tyr Ala Thr
 465 470 475 480
 Thr Phe Trp Ser Tyr Leu Ala Cys Val Trp Asn Thr Val Phe Leu Ile
 485 490 495
 Ser Pro Ile Val Tyr Leu Phe Thr Gly Ile Pro Pro Val Ser Ala Trp
 500 505 510
 Ser Glu Pro Phe Tyr Leu His Phe Leu Pro Phe Phe Ile Val Ser Glu
 515 520 525
 Leu Ala Phe Met Phe Gly Thr Trp Gly Ile Ser Ala Trp Asp Gly Arg
 530 535 540
 Ala Ser Tyr Leu Ser Phe Phe Ser Met Asn Leu Arg Ala Leu Asn Thr
 545 550 555 560
 Val Leu Arg Gly Glu Gln Ile Lys Phe His Val Thr Pro Lys Glu Arg
 565 570 575
 Gln Thr Gly Arg Phe Leu Tyr Leu Val Lys Pro Gln Ile Ala Ile Val
 580 585 590
 Val Leu Thr Leu Ala Gly Leu Ile Trp Gly Gly Ile Gln Val Ala Arg
 595 600 605
 Gly Gln Val Asp Asp Pro Ser Gly Tyr Val Ile Asn Ile Phe Trp Gly
 610 615 620
 Ala Val Asn Ile Ala Ala Met Leu Pro Leu Ile Phe Ala Ala Met Trp
 625 630 635 640
 Thr Pro Ala Glu Glu Glu Val Ser Glu
 645 650

<210> 10125

<211> 909

<212> PRT

<213> Enterobacter cloacae

<400> 10125

Val Thr Met Arg Ala Thr Ser Arg Phe Asp Leu Asn Ala Leu Pro Val
 1 5 10 15
 Gly Val Met Ile Tyr Asp Pro Ala Glu His Leu Leu Ala Trp Asn Asp
 20 25 30
 Gln Ile Ser Arg Phe Tyr Pro Val Ile Ala Pro Trp Leu Ile Ala Gly
 35 40 45
 Ala Ser Leu Glu Ser Leu Ala Glu Lys Phe Ile Asp Ala Gly Tyr Asn
 50 55 60
 Ile Asp Ser Thr Arg Arg Arg Thr Leu Arg Glu Ala Ile Val Arg Asn
 65 70 75 80
 Cys Arg Gln Ser Ser His Arg Glu Val Arg Gln Ser Gly Asn Arg Arg
 85 90 95

Leu	Tyr	Val	Gln	His	Gln	Arg	Leu	Ala	Asp	Gly	Gly	Ile	Leu	Ser	Leu
His	Thr	Asp	Ile	Thr	Glu	Leu	Asp	Asp	Ala	Gln	Arg	Ser	Arg	Gln	Gln
Leu	His	Asp	Asp	Phe	Leu	Leu	Thr	Ala	Glu	Ser	Ile	Gln	Ile	Gly	Ile
Trp	Asn	Trp	Gln	Val	Ser	His	Asp	Ser	Leu	Glu	Val	Asn	Asp	Thr	Leu
Leu	Ala	Met	Val	Gly	Gln	Ser	Arg	Thr	Gln	Leu	His	Tyr	Pro	Leu	Arg
Phe	Leu	Leu	Asn	Leu	Val	His	Glu	Glu	Asp	Arg	Ala	Val	Leu	Arg	Asn
Ala	Met	Ile	Ala	Ser	Arg	Gln	Glu	His	Met	Pro	Val	Phe	Glu	Ser	Glu
Ile	Arg	Val	Gln	His	Ala	Thr	Gln	Gly	Trp	Arg	Trp	Met	Leu	Val	Ser
Gly	Gln	Val	Val	Thr	Leu	Ser	Met	Gln	Gln	Gln	Ala	Glu	Arg	Val	Ile
Gly	Thr	Leu	Gln	Asp	Ile	Thr	Arg	Arg	Lys	Glu	Ala	Glu	Leu	Leu	Ala
Ile	Glu	Ala	Ala	Lys	Val	Ala	Arg	Glu	Ala	Asn	Glu	Ala	Lys	Ser	Ala
Phe	Leu	Ala	Asn	Met	Ser	His	Glu	Ile	Arg	Thr	Pro	Met	Asn	Gly	Ile
Leu	Gly	Met	Thr	Gln	Leu	Cys	Leu	Asp	Thr	Gln	Leu	Thr	Pro	Glu	Gln
Arg	Glu	Tyr	Leu	Ser	Leu	Val	Met	Ser	Ser	Ala	Gln	Ser	Leu	Leu	His
Ile	Ile	Asn	Asp	Ile	Leu	Asp	Phe	Ser	Arg	Ile	Glu	Ser	Gly	Lys	Met
Thr	Val	Asp	Thr	Glu	Pro	Leu	Glu	Ile	Arg	Pro	Phe	Val	Gln	Ser	Leu
Ile	Arg	Pro	His	Met	Pro	Ser	Ala	Ser	Glu	Lys	Gly	Ile	Glu	Leu	Leu
Val	Asp	Ile	Ala	Pro	Gly	Val	Pro	Glu	Val	Leu	Ile	Val	Asp	Gly	Pro
Arg	Leu	Arg	Gln	Ile	Leu	Thr	Asn	Leu	Leu	Gly	Asn	Ala	Leu	Lys	Phe
Thr	His	His	Gly	Glu	Val	Met	Leu	Ala	Ile	Glu	Pro	Thr	Glu	Ser	Glu
Gly	His	Trp	Arg	Phe	Arg	Ile	Arg	Asp	Ser	Gly	Ile	Gly	Ile	Pro	Met
Glu	Lys	Gln	Lys	Ala	Ile	Phe	Glu	Ala	Phe	Ser	Gln	Ala	Asp	Ser	Ser
Thr	Thr	Arg	Arg	Tyr	Gly	Gly	Thr	Gly	Leu	Gly	Leu	Thr	Ile	Ser	Ala
Arg	Leu	Val	Ser	Leu	Met	Gly	Gly	Glu	Leu	Thr	Val	Gln	Ser	Glu	Pro
Gly	Glu	Gly	Ser	Glu	Phe	Ala	Phe	Thr	Leu	Pro	Leu	Glu	Gly	Gln	Leu
Ala	Val	Ser	Ala	Thr	Asp	Ala	Pro	Val	Ala	Arg	Phe	Asn	Gly	Glu	Ser
Val	Leu	Val	Val	Asp	Asp	Asn	Ser	Thr	Asn	Leu	Arg	Leu	Leu	Asp	Thr
Met	Leu	Arg	Gln	Met	Gly	Leu	Thr	Pro	Thr	Cys	Val	Asn	Asn	Ala	Gly
Glu	Ala	Leu	Ser	Leu	Thr	Ala	Lys	Arg	Gly	Tyr	Trp	Pro	Leu	Ile	Leu
Leu	Asp	Ala	Gln	Met	Pro	Asp	Met	Asp	Gly	Val	Ser	Leu	Ala	Ile	Glu
Leu	Ser	Val	Met	Pro	Gln	Ala	Glu	Gln	Ser	His	Ile	Ile	Met	Leu	Ser

580 585 590
 Ser Met Ser Arg His Phe Asp Ala Asn Met Leu Lys Arg Ile Gly Val
 595 600 605
 Ala His Tyr Leu His Lys Pro Val Ala Gln Arg Glu Leu Tyr Gln Thr
 610 615 620
 Ile Ala Ser Val Leu Ala Pro Ala Pro Leu Ala Ser Pro Thr Ala Val
 625 630 635 640
 Pro Ala Ser Ala Leu Val Thr Ala Pro Val Thr Ala Pro Val Thr Ala
 645 650 655
 Gln Ala Ser Leu Arg Ile Leu Leu Ala Glu Asp Asn Leu Val Asn Gln
 660 665 670
 Lys Val Ala Arg Arg Leu Leu Glu Gln Leu Gly His Arg Cys Glu Val
 675 680 685
 Val Ser Asn Gly Arg Glu Ala Leu Glu Arg Trp Arg Glu Gln Ser Trp
 690 695 700
 Asp Leu Met Leu Val Asp Leu Gln Met Pro Glu Met Asp Gly Glu Thr
 705 710 715 720
 Ala Ile Arg Leu Leu Arg Glu Glu Thr Leu Thr Arg Gly Arg Ser His
 725 730 735
 Gln Pro Ala Ile Ala Met Thr Ala His Ala Met Gln Gly Asp Lys Ala
 740 745 750
 Arg Cys Leu Ala Met Gly Phe Asp Gly Tyr Ile Ala Lys Pro Val Ser
 755 760 765
 Gln Glu Ala Leu Arg Glu Glu Ile Ala His Val Leu Ala Gly Glu Asp
 770 775 780
 Lys Gly Leu Pro Asp Glu Ala Gln Leu Leu Lys Gln Cys Ala Asp Asp
 785 790 795 800
 Pro Glu Leu Val Asn Glu Leu Leu Ala Leu Phe Gly Asn Gly Leu Asp
 805 810 815
 Glu Ala Val Ala Ala Met Ala Leu Asn Ile Ala His Asn Asp Arg Asp
 820 825 830
 Ala Leu Arg Arg Ala Ala His Lys Leu Arg Gly Glu Ala Val Thr Leu
 835 840 845
 Gly Phe Ile Arg Leu Ser Glu Val Leu Gln Gln Leu Glu Ser Gln Ala
 850 855 860
 Val Ser Leu Asn Gln Thr Gly Leu Ser Val Leu His Gly Glu Leu Ile
 865 870 875 880
 Glu Glu Ala Arg Arg Ser Ala Ala Trp Leu Arg Arg Arg Ala Gln Glu
 885 890 895
 Val Lys Asp Asp Gln Ala Ser Ser Ala Ala Gly Asn
 900 905

<210> 10126

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 10126

Ala Met Asn Ala Gly Tyr Pro Thr Met Leu Leu Ile Pro Gly Met Ser
 1 5 10 15
 Ala Phe Gln Arg Val Asn Glu Pro Ala Pro Gly Leu Ala Gly Arg Met
 20 25 30
 Phe Phe Gln Val His Cys Pro His Gly Lys Thr Gly Pro Asn Val Gly
 35 40 45
 Leu His Leu His Val Gln Arg Asn Pro Phe Ser Arg Cys Glu Ile Phe
 50 55 60
 Leu Asp His Trp Gln Arg His Ile Thr Pro Pro Ser Val Glu Leu Ala
 65 70 75 80
 Pro Gln Phe Asn Ile Arg Val Thr Ser Leu Gln Pro Gly Ala Val Glu
 85 90 95
 Ser Glu Leu Phe Glu His Ile Ser Asp Lys Asn Tyr Arg Ala Gln Met

```
<210> 10127
<211> 129
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10128
<211> 92
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10129
<211> 308
<212> PRT
<213> Enterobacter cloacae
```

<400> 10129
Ala Met Ser Ala Gln Asp Arg Gln Thr Leu Ser Leu Pro Ser Leu Arg
1 5 10 15
Asn Leu Gln Ala Phe Ile Ala Val Ala Asn Ala Leu Ser Ile His Gln

20 25 30
 Ala Ala Glu Gln Leu Asn Val Thr Pro Ser Ala Val Ser His Gln Ile
 35 40 45
 Ala Ser Leu Glu Ser Trp Leu Gly Lys Lys Leu Phe Ile Arg Ser Gly
 50 55 60
 Lys Gly Val Gln Leu Thr Pro Thr Gly Glu Gln Tyr Leu Arg Glu Val
 65 70 75 80
 Ser Ala Ala Met Ser Ala Ile Gly Arg Ala Thr Asp Gln Ile Val Lys
 85 90 95
 Glu Lys Asp Asn Ala Val Leu Arg Val His Ser Ser Pro Thr Phe Gly
 100 105 110
 Leu Ser Trp Leu Leu Arg Arg Leu Gly Arg Phe Arg Ala Glu Tyr Pro
 115 120 125
 Asp Ile Thr Ile Asn Leu Thr Cys Ser Tyr Glu Asn Leu Gln Phe Ala
 130 135 140
 Arg Asp Asn Ile Asp Ile Asp Ile Arg His Gly Ile Pro Asp Trp Asp
 145 150 155 160
 Ala Tyr Arg Val Met Thr Ile Lys Asn Asp Thr Leu Val Val Leu Ala
 165 170 175
 Ser Pro Asp Tyr Ala Glu Glu His Pro Ile Ser Thr Pro Ala Asp Leu
 180 185 190
 Leu Gln Gln Ser Leu Ile Ser Ser Thr Ser Thr Leu Val Asn Trp Glu
 195 200 205
 Lys Trp Phe Ala Trp His Asn Ile Asp Arg Pro Trp Leu Asn Phe Ser
 210 215 220
 Leu Ser Phe Asp Arg Ser Tyr Met Ser Phe Glu Ala Ala Arg Met Gly
 225 230 235 240
 Leu Gly Phe Ile Leu Glu Ser Lys Met Met Ala Thr Asp His Leu Lys
 245 250 255
 Asp Gly Ser Leu Val Gln Val Leu Pro Asp Glu Met Gly Ile Ala Ile
 260 265 270
 Asn Ala His His Leu Val Met Pro His Met Asn Glu Arg Ala Trp Lys
 275 280 285
 Ile Gln Gln Phe Val Glu Trp Ile Asp Arg Glu Leu Arg Leu Ser Gly
 290 295 300
 Tyr His Leu
 305

<210> 10130

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 10130

Lys Val Arg Ser Gly Ala Leu Thr Pro Ala Leu Ser His Arg Glu Arg
 1 5 10 15
 Gly Ile Asn Arg Gly Ile Gln His Met Leu His His Lys His Pro Ala
 20 25 30
 His His Gln Val Gly Arg Asp Lys His Gln Gly Thr Ala Leu Gly Lys
 35 40 45
 Ala His His Arg Gly Val Asp His Ala Lys Gln Arg Gln Gln Arg Ala
 50 55 60
 Ser Cys Gly Gly Asp Gly Pro Ala Gln Arg Phe Val Glu Asp Gly Glu
 65 70 75 80
 Asp Gly Asp Thr Ala Pro Glu His Ala Gly Glu Arg Arg Ala Val Ala
 85 90 95
 Glu Met His Gln Ala Phe Val Val Asp Thr Leu Ala Val Gln His Val
 100 105 110
 Gly Ala Asp Phe Arg Arg Ala Gly Pro Arg Gly Ala His His Ala Val
 115 120 125
 His His Gly Gln Arg Pro Val Gly Asp Pro Arg Glu Gln Ala Asp Glu

130	135	140
Asp Asn Gly His Leu His Phe Arg Gly Phe Pro His His Leu Val Gly		
145	150	155
Gly Asp Asp Ala Asp Lys His Gln Asn Arg His Asp Gly Gly His Arg		
	165	170
Tyr Asp Gly Glu His Lys Gly Pro Gln Pro Glu Gln Arg His Asp Glu		
	180	185
His Gly His Ala Gly Arg Gln Gly Val Ala Asp Ala Gly Ala His Arg		
	195	200
Phe Pro Ala Arg Met Ala Asp Val Asp Arg Asp Arg Glu Arg Ile Ala		
210	215	220
His Gln Ala Ala Glu His Arg Gly Gln Thr Val Arg Gln His Tyr Leu		
225	230	235
Ala Gly Arg Val Phe Ile Pro Cys Arg Val Gly Ala Phe Asp Val Leu		
	245	250
Gln Val Lys Asp Val Val Arg Gln Pro Gln Arg Tyr Gly Gly Arg Gln		
	260	265
Ile Arg Gln Arg Val Arg Gln Pro Leu His Lys Ala Val His Val His		
	275	280
Phe Arg Arg Val Lys Ala Glu Gly		
290	295	

<210> 10131

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 10131

Cys Asn Ala Ser Val Lys Ile Cys Ser Lys Leu Met Val Thr Arg Ser	
1	5
His Asn Met Asn Ser Ile Phe Thr Glu Glu Asn Leu Leu Ala Phe Thr	
	20
Thr Ala Ala Arg Phe Gly Ser Phe Ser Lys Ala Ala Ala Glu Leu Gly	
	35
Val Thr Thr Ser Ala Ile Ser Tyr Thr Ile Lys Arg Met Glu Thr Gly	
	50
Leu Asp Val Val Leu Phe Val Arg Asn Thr Arg Ser Ile Glu Leu Thr	
65	70
Glu Ser Gly Phe Tyr Phe Tyr Arg Lys Ala Thr Asp Leu Leu Asn Asp	
	85
Phe His Ala Ile Lys Arg Gly Ile Asp Thr Ile Ser Gln Gly Ile Glu	
	100
Thr Arg Val Arg Ile Cys Ile Asn Gln Leu Leu Tyr Thr Pro Arg His	
	115
Thr Ala Arg Leu Leu Gln Val Leu Lys Lys Gln Phe Pro Thr Cys Gln	
	130
Ile Thr Val Thr Thr Glu Val Tyr Asn Gly Val Trp Asp Ser Ile Ile	
145	150
Asn Asn Gln Ala Asn Ile Ala Ile Gly Ala Pro Asp Thr Leu Leu Asp	
	165
Gly Gly Gly Ile Asp Tyr Thr Glu Ile Gly Ala Ile Arg Trp Val Phe	
	180
Ala Ile Ala Pro Thr His Pro Leu Ala Phe Ala Pro Glu Pro Ile Ser	
	195
Glu Ser Gln Leu Arg Leu Tyr Pro Asn Ile Met Val Glu Asp Thr Ala	
	210
His Thr Ile Asn Lys Lys Val Gly Trp Leu Leu His Gly Gln Glu Ala	
225	230
Ile Leu Val Pro Asp Phe Asn Thr Lys Cys Gln Cys Gln Ile Leu Gly	
	245
Glu Gly Ile Gly Phe Leu Pro Glu Tyr Met Thr Arg Glu Ala Val Glu	
	255

```
<210> 10132
<211> 171
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10133
<211> 196
<212> PRT
<213> Enterobacter cloacae
```

<400> 10133															
Met	Gly	Pro	Thr	Thr	Lys	Gly	Pro	Lys	Ile	Glu	Gly	Pro	Lys	Met	Ala
				5					10					15	
Lys	Ile	Ala	Lys	Lys	Leu	Thr	Asp	Thr	Glu	Ile	Lys	Ser	Thr	Lys	Pro
			20					25					30		
Ala	Asp	Lys	Glu	Ile	Asn	Leu	Phe	Asp	Gly	Asp	Gly	Leu	Ile	Leu	Arg
		35					40					45			
Ile	Ala	Pro	Leu	Thr	Lys	Gly	Gly	Lys	Lys	Asn	Trp	Tyr	Phe	Arg	Tyr
	50					55					60				
Ala	Val	Pro	Val	Ser	Lys	Lys	Arg	Thr	Lys	Met	Ser	Leu	Gly	Thr	Tyr
65					70					75					80
Pro	His	Leu	Thr	Leu	Ala	Arg	Ala	Arg	Thr	Leu	Arg	Asp	Glu	Tyr	Leu
				85					90					95	
Ser	Leu	Leu	Ala	Asn	Gly	Ile	Asp	Pro	Gln	Val	His	Asn	Ser	Asn	Lys
			100					105					110		
Met	Asn	Ala	Leu	Lys	Asn	Ala	Thr	Glu	His	Thr	Leu	Gln	Ala	Val	Ala
		115					120					125			

Arg Lys Trp Leu Asp Glu Lys Val Lys Thr Ser Gly Ile Ser Gln Asp
 130 135 140
 His Ala Glu Asp Ile Trp Arg Ser Leu Glu Arg Asn Ile Phe Pro Gly
 145 150 155 160
 Leu Gly Asn Val Pro Val Asn Glu Ile Arg Pro Lys Leu Leu Lys Gln
 165 170 175
 His Leu Asp Pro Ile Glu Gln Arg Gly Val Leu Glu Thr Glu Ser Pro
 180 185 190
 Arg Ile Ile
 195

<210> 10134

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 10134

Arg Arg Leu Asp Gly Tyr Val Arg Asp Ala Met Glu Tyr Pro Leu Leu
 1 5 10 15
 Asp Asn Thr Asp Leu Pro Leu Val Leu Leu Gly Gly Thr Leu Cys Asn
 20 25 30
 Val Arg Leu Trp Gln Pro Val Ile Glu Arg Leu Asn Ile Ser Ala Val
 35 40 45
 Leu Cys Ile Thr Leu Thr Gly Ala Glu Ser Ala Pro Gln Ala Ser Arg
 50 55 60
 Arg Leu Leu Lys Val Leu Pro Pro Arg Phe Leu Leu Ala Gly Phe Ser
 65 70 75 80
 Leu Gly Ala Ile Val Ala Leu Gln Met Ala Ala Asp Ala Pro Glu Arg
 85 90 95
 Val Asn Gly Leu Thr Leu Ile Ser Val Asn Pro Leu Pro Val Ala Pro
 100 105 110
 Asp Thr Leu Ala Ser Arg Arg Glu Ala Val His Thr Ala Gln Ala His
 115 120 125
 Gly Leu Ala Asp Trp Leu Val Ser Ser Leu Trp Gln Ser Tyr Val Ala
 130 135 140
 Pro Ser Arg Leu Ser Asp Arg Ile Leu Gln Glu Thr Ile Cys Arg Met
 145 150 155 160
 Ala Gln Glu Cys Gly Ile Glu Thr Phe Ala Gly Gln Thr Glu Met Ala
 165 170 175
 Ile His Arg Gln Asp Asn Arg Thr Ala Phe Asn Ala Leu Ala Cys Pro
 180 185 190
 Thr Leu Leu Leu Asn Gly Ala Gln Asp Val Ile Cys Thr Pro His His
 195 200 205
 His Gln Leu Leu Ala Ala Gly Asn Ala Asn Val Thr Arg His Thr Val
 210 215 220
 Glu Ala Gly Gly His Phe Ile Pro Leu Glu Thr Pro Asp Glu Ile Ala
 225 230 235 240
 Pro Leu Leu Arg Gln Trp Ile Thr Glu Cys Ile Gln Cys Ala Lys Thr
 245 250 255
 Val

<210> 10135

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10135

Arg His Val Val Gly Phe Ser Thr Ser Leu Phe Ile Ser Thr Gly Ala
 1 5 10 15
 Ile Trp Leu Met Gly Arg Arg Val Leu His Ala Lys Lys Phe Leu Val

```
<210> 10136
<211> 759
<212> PRT
<213> Enterobacter cloacae
```

Ala 1	Phe	Tyr	Met	Ala 5	Ser	Leu	Ser	Arg	Arg 10	Pro	Asp	Ala	Leu	Arg 15	Pro
Gly	Cys	Ala	Ala 20	Glu	His	Arg	Arg 25	Leu	Lys	Met	Ile	Arg	Leu 30	Leu	Leu
Leu	Leu	Ala 35	Ile	Ser	Pro	Leu	Leu 40	Ala	Gln	Ala	Ser	Gln 45	Pro	Val	Thr
Trp	Ser 50	Leu	Ala	Gly	Met	Trp 55	Arg	Val	His	Asp	Ala 60	Asn	Leu	Ser	Thr
Phe 65	Asp	Gly	Ala	Ser	Ala 70	Pro	Asp	Arg	Asp 75	Trp	Arg	Ser	Ile	Ala 80	Val
Pro	Ala	Asn	Trp	Tyr 85	Ser	Ala	Gly	Tyr	Asp 90	His	Gln	Gly	Ala 95	Leu	Trp
Tyr	Arg	His	Glu 100	Phe	Thr	Leu	Pro	Arg 105	Arg	Ala	Pro	Asp	Thr 110	Met	Ala
Thr	Leu	Val 115	Phe	Asp	Gly	Val	Asp 120	Tyr	Phe	Ala	Asp	Val 125	Thr	Leu	Asn
Gly	Arg 130	His	Leu	Ala	His	His 135	Glu	Gly	Tyr	Phe	Gln	Arg	Phe	Ser	Val
Asp 145	Ile	Ser	Asp	Ala	Leu 150	Gln	Arg	His	Asn	Lys 155	Leu	Ala	Val	Arg	Val
Asp	Ser	Pro	Trp	Glu 165	Asp	Pro	Lys	Thr	Ile 170	Trp	Pro	Leu	His	Lys 175	Thr
Met	Val	Lys	Gly 180	Val	Leu	Asn	Gln	His 185	Asp	Thr	Arg	Pro	Gly 190	Gly	Ala
Trp	Ser	Glu 195	Asp	Gly	Gln	Asp	Ala 200	Asn	Ser	Gly	Gly	Ile 205	Trp	Ser	Pro
Val	Lys 210	Leu	His	Leu	Ser	Arg 215	Gly	Val	Thr	Ile	Asp 220	Glu	Val	Ile	Leu
Arg 225	Pro	Asp	Trp	Arg	Glu 230	Gly	Leu	Ser	Lys	Pro 235	Ala	Leu	His	Ala 240	Glu
Ile	Arg	Tyr	Arg	Ala 245	Leu	Ser	Ala	Gly	Asp 250	Val	Thr	Leu	Arg	Leu 255	Ser
Ala	Thr	Pro	Asp 260	Asn	Phe	Thr	Gly	Pro 265	Pro	Val	Lys	Gln	Glu 270	Phe	Pro
Val	Asn	Leu 275	Ala	Arg	Thr	Asp	Gly 280	Lys	Pro	Gln	Ser	Leu 285	Arg	Val	Thr
Leu	Pro 290	Met	Gln	Gly	Ala	Arg 295	Leu	Trp	Trp	Pro	Val	Gly	Tyr	Gly	Arg
Pro 305	Asn	Leu	Tyr	Arg	Val 310	Arg	Ala	Thr	Leu	Thr 315	Asp	Lys	Gln	Gly	Val
Met	Asp	Thr	Ala	Val 325	Ala	Arg	Thr	Gly	Leu 330	Arg	Lys	Ile	Val	Lys 335	Gln
Pro	Asp	Asn	Lys	Gly	Trp	Leu	Phe	Asn	Asp	Lys	Arg	Leu	Phe	Ile	Lys

340 345 350
 Gly Ser Asn Tyr Ile Gly Ser Pro Trp Leu Ser Thr Met Thr Arg Lys
 355 360 365
 Lys Tyr Arg Arg Asp Phe Arg Leu Val Gln Ala Met Asn Ala Asn Ala
 370 375 380
 Ile Arg Val His Ser His Val Ala Gly Arg Ala Leu Tyr Asp Val Ala
 385 390 395 400
 Asp Glu Met Gly Leu Met Ile Trp Gln Asp Val Pro Leu Gln Trp Gly
 405 410 415
 Tyr Asn Asn Ser Asp Ala Phe Ala Asp Asn Ala Val Arg Gln Thr Arg
 420 425 430
 Glu Met Val Glu Gln Phe Gly Asn Ser Pro Ala Ile Ile Val Trp Gly
 435 440 445
 Gly His Asn Glu Pro Pro Trp Asn Ser Pro Trp Met Glu Lys Arg Phe
 450 455 460
 Pro Asp Trp Asn Lys Asn Leu Asn Gln Thr Leu Thr Lys Arg Val Gly
 465 470 475 480
 Asp Ala Leu Ser Gln Asp Thr Ser Arg Ile Val His Arg Phe Ser Ala
 485 490 495
 Val Glu Glu His Tyr Trp Ala Gly Trp Tyr Phe Gly Thr Met Arg Asp
 500 505 510
 Leu Leu Gly Pro Ala Lys Thr Ala Ile Ile Thr Glu Phe Gly Ala Gln
 515 520 525
 Ala Leu Pro Arg Leu Ser Thr Leu Lys Thr Ile Ile Pro Ala Arg Leu
 530 535 540
 Met Trp Pro Lys Ser Thr Ala Ala Asp Asp Pro Gly Trp Thr His Trp
 545 550 555 560
 Lys Tyr His Asn Phe Gln Pro Phe Gln Thr Phe Lys Phe Ala Asn Ile
 565 570 575
 Pro Arg Gly Asn Thr Ile Gln Glu Met Ile Ala Asn Thr Gln Arg Tyr
 580 585 590
 Gln Ala Glu Leu Val Ala Met Ala Ala Glu Ser Tyr Arg Arg Gln Arg
 595 600 605
 Tyr Gln Pro Val Thr Ala Leu Phe His Phe Met Phe Val Glu Thr Trp
 610 615 620
 Pro Ser Ile Asn Trp Gly Val Val Asp Tyr Leu Arg Lys Pro Lys Ala
 625 630 635 640
 Gly Tyr Tyr Ala Leu Gln Lys Ala Tyr Gln Pro Ile Leu Pro Ser Ile
 645 650 655
 Glu Pro Val Thr Ala Val Trp Arg Gln Gly Ser Glu Ala Thr Val Arg
 660 665 670
 Leu Trp Ala Ile Asn Asp Thr Trp Ser Ala Cys Glu Ala Cys Arg Leu
 675 680 685
 Lys Trp Gln Val Lys Gln Asn Gly Arg Val Leu Ala Lys Gly Asn Thr
 690 695 700
 Ser Leu Thr Leu Pro Pro Asp Ser Gly Ser Arg Ile Lys Asp Ile Thr
 705 710 715 720
 Val Thr Pro Thr Thr Arg His Asn Val Thr Ile Glu Tyr Glu Ile Ser
 725 730 735
 Asp Arg Ala Gly Asn Thr Val Gly Ser Asn Gln Arg Asn Glu Arg Val
 740 745 750
 Glu Ser Pro Pro Glu Gln
 755

<210> 10137

<211> 3839

<212> PRT

<213> Enterobacter cloacae

<400> 10137

Thr Val Phe Ser Pro Gly Ala Arg Ser Ser Leu Gln Lys Arg Trp Leu

1				5				10				15		
Cys	Phe	Thr	Arg	Arg	Asn	Gln	Ser	Leu	Ser	Trp	Ser	Asn	Asn	Cys
			20					25				30		Met
Ser	Gln	Ile	Ser	Val	Ile	Ser	Lys	Leu	Thr	Gly	Val	Glu	Thr	Thr
		35					40					45		
Glu	Gly	Thr	Gln	Ile	Thr	Leu	Asp	His	Ser	Ser	Ile	Val	Lys	Leu
	50					55					60			Asn
Val	Asp	Arg	Ala	Asp	Ile	Ser	Gly	Tyr	Ser	Arg	Ser	Gly	Asn	Asp
65				70					75					80
Val	Ile	Thr	Leu	Asn	Ser	Gly	Glu	Val	Ile	Thr	Leu	Lys	Asn	Phe
				85				90					95	Tyr
Val	Thr	Asp	Ala	Gln	Gly	Val	Ser	Gln	Leu	Val	Leu	Glu	Glu	Ser
			100					105				110		Asp
Gly	Ala	Leu	Trp	Trp	Ile	Glu	Asp	Pro	Thr	Gly	Ala	Ala	Thr	Tyr
	115						120					125		Glu
Ser	Ile	Ala	Ser	Thr	Asp	Ala	Leu	Leu	Ala	Ala	Ser	Gly	Ser	Asp
	130				135						140			Ala
Gly	Gly	Ala	Ala	Ala	Trp	Pro	Trp	Val	Leu	Gly	Gly	Leu	Ala	Ala
145				150						155				160
Gly	Gly	Ile	Ala	Ile	Ala	Ala	Gly	Thr	Gly	Gly	Gly	Gly	Gly	Asp
				165				170						175
Asp	Asp	Asn	Asn	Ser	Pro	Asn	Pro	Gly	Asn	Pro	Gly	Asn	Pro	Ser
		180						185					190	Glu
Pro	Asp	Thr	Thr	Pro	Pro	Asp	Ala	Pro	Thr	Asn	Leu	Gln	Val	Ser
	195						200					205		Pro
Asp	Gly	Lys	Thr	Val	Thr	Gly	Thr	Ala	Glu	Pro	Gly	Ser	Thr	Ile
	210					215						220		Thr
Leu	Lys	Asp	Ala	Asp	Gly	Asn	Thr	Ile	Gly	Thr	Gly	Lys	Ala	Gly
225				230					235					240
Asp	Gly	Lys	Phe	Thr	Ile	Asp	Leu	Gly	Thr	Pro	Leu	Thr	Asn	Gly
			245					250						255
Gln	Ile	Thr	Ala	Thr	Ala	Thr	Asp	Pro	Ser	Gly	Asn	Thr	Ser	Gln
			260				265						270	Gly
Gly	Gln	Val	Thr	Ala	Pro	Asp	Leu	Thr	Ala	Pro	Asp	Ala	Pro	Ala
	275						280					285		Asn
Leu	Glu	Val	Ser	Pro	Asp	Gly	Lys	Thr	Val	Thr	Gly	Thr	Ala	Glu
	290					295					300			Pro
Gly	Ser	Thr	Val	Thr	Leu	Lys	Asp	Ala	Asp	Gly	Asn	Thr	Ile	Gly
305				310					315					320
Gly	Lys	Ala	Gly	Ser	Asp	Gly	Lys	Phe	Thr	Ile	Asp	Leu	Gly	Thr
			325					330					335	Pro
Leu	Thr	Asn	Gly	Glu	Gln	Ile	Thr	Ala	Thr	Ala	Thr	Asp	Pro	Ser
			340					345					350	Gly
Asn	Thr	Ser	Pro	Gly	Val	Gln	Val	Thr	Ala	Pro	Asp	Leu	Thr	Ala
	355					360						365		Pro
Asp	Ala	Pro	Glu	Ile	Val	Thr	Val	Asn	Asp	Asn	Val	Gly	Ala	Glu
	370				375						380			Thr
Gly	Pro	Leu	Ser	Asn	Gly	Gln	Arg	Thr	Asp	Asp	Ala	Arg	Pro	Thr
385				390					395					Phe
Ser	Gly	Ile	Ser	Glu	Ala	Gly	Thr	Val	Ile	Thr	Phe	Tyr	Asp	Asn
			405					410						415
Lys	Pro	Ile	Gly	Thr	Ala	Thr	Ala	Asp	Ala	Thr	Gly	Lys	Trp	Ser
			420				425					430		Phe
Thr	Pro	Ser	Thr	Asn	Leu	Ser	Glu	Gly	Asn	His	Ala	Ile	Thr	Thr
	435						440					445		
Ala	Thr	Asp	Ala	Ala	Gly	Asn	Thr	Ser	Pro	Ala	Ser	Thr	Ala	Val
	450				455						460			Ser
Phe	Val	Val	Asp	Thr	Val	Ala	Pro	Gly	Ala	Pro	Ala	Ile	Val	Ser
465				470					475					Ile
Thr	Asp	Asp	Val	Ala	Pro	Gly	Thr	Gly	Thr	Leu	Gly	Ser	Gly	Ser
			485					490						495

Thr	Asn	Asp	Pro	Arg	Pro	Gln	Leu	Thr	Gly	Thr	Ala	Glu	Ala	Gly	Ser
			500					505					510		
Thr	Ile	Thr	Ile	Tyr	Asp	Asn	Gly	Ile	Ala	Ile	Gly	Thr	Ala	Ile	Val
			515				520					525			
Gly	Ser	Asn	Gly	Ser	Trp	Ser	Phe	Thr	Pro	Ser	Val	Asn	Leu	Ser	Glu
			530				535				540				
Gly	Ser	His	Gln	Leu	Thr	Val	Arg	Ala	Thr	Asp	Val	Ala	Gly	Asn	Thr
					550					555					560
Gly	Pro	Ala	Ser	Pro	Val	Phe	Thr	Val	Thr	Val	Asp	Val	Thr	Ala	Pro
				565					570					575	
Gln	Thr	Pro	Ser	Gly	Phe	Ile	Ile	Asn	Asp	Asp	Thr	Gly	Val	Leu	Lys
				580				585					590		
Gly	Ala	Ile	Gly	Ala	Gly	Gln	Phe	Thr	Asp	Ala	Ser	Glu	Pro	Arg	Leu
			595				600					605			
Thr	Gly	Arg	Gly	Glu	Pro	Gly	Ser	Thr	Ile	Thr	Val	Tyr	Asp	Asn	Gly
						615					620				
Val	Val	Ile	Gly	Thr	Thr	Thr	Val	Leu	Pro	Asn	Gly	Thr	Trp	Ser	Ile
						630				635					640
Thr	Pro	Thr	Ser	Pro	Leu	Ala	Glu	Gly	Ala	His	Ser	Ile	Thr	Leu	Arg
				645					650					655	
Glu	Thr	Asp	Ala	Ala	Gly	Asn	Gln	Ser	Gly	Leu	Ser	Gln	Pro	Ile	Asn
				660				665					670		
Phe	Thr	Val	Asp	Leu	Thr	Pro	Pro	Asp	Met	Pro	Val	Ala	Thr	Leu	Asn
				675				680				685			
Ser	Ala	Gly	Thr	Gln	Ile	Thr	Gly	Thr	Ala	Glu	Pro	Gly	Ser	Lys	Ile
						695					700				
Val	Ile	Thr	Asn	Asn	Ala	Gly	Leu	Gln	Ile	Gly	Thr	Ala	Thr	Ala	Asp
					710					715					720
Ser	Asn	Gly	Asn	Tyr	Val	Val	Asn	Leu	Asn	Pro	Ala	Gln	Thr	Asn	Gly
				725					730					735	
Glu	Ile	Ile	Ser	Val	Val	Ala	Ser	Asp	Ala	Ala	Gly	Asn	Gln	Ser	Ser
				740				745					750		
Pro	Ala	Leu	Val	Asn	Ala	Ala	Asp	Ile	Thr	Pro	Pro	Ala	Ala	Pro	Gly
				755				760				765			
Asn	Leu	Val	Val	Ala	Glu	Asp	Gly	Ala	Ser	Val	Ser	Gly	Thr	Ala	Glu
						775					780				
Pro	Asn	Ser	Thr	Ile	Ile	Lys	Ala	Pro	Asp	Gly	Thr	Ile	Ile	Gly	
				790					795					800	
Gln	Ala	Thr	Ala	Gly	Pro	Asp	Gly	Thr	Phe	Thr	Ile	Pro	Ile	Ser	Pro
				805					810					815	
Ala	Gln	Thr	Asn	Gly	Glu	Ala	Leu	Glu	Val	Thr	Ala	Thr	Asp	Gly	Ser
				820				825					830		
Gly	Asn	Thr	Ser	Pro	Ser	Gly	Phe	Ala	Asp	Ala	Pro	Asp	Ser	Thr	Pro
				835				840				845			
Pro	Leu	Ala	Pro	Glu	Asn	Val	Val	Ile	Ser	Ala	Asp	Gly	Thr	Thr	Val
						855					860				
Thr	Gly	Thr	Ala	Glu	Pro	Gly	Ser	Thr	Val	Thr	Ile	Arg	Glu	Asn	Gly
					870					875					880
Val	Lys	Val	Gly	Glu	Thr	Val	Ala	Asp	Gln	Gly	Asn	Phe	Ser	Val	
					885				890					895	
Glu	Leu	Ile	Pro	Pro	Lys	Ala	Asn	Gly	Glu	Ala	Leu	Thr	Ala	Asp	Ala
					900				905				910		
Thr	Asp	Thr	Ala	Gly	Asn	Thr	Gly	Pro	Thr	Ala	Pro	Phe	Asp	Ala	Pro
							920					925			
Asp	Ile	Thr	Ala	Ala	Gln	Thr	Pro	Val	Ile	Thr	Gly	Val	Val	Asp	Asp
						935					940				
Ala	Pro	Gly	Val	Thr	Gly	Pro	Val	Ser	Gln	Asn	Gly	Leu	Thr	Asn	Asp
					950					955					960
Asn	Thr	Pro	Thr	Ile	Asn	Gly	Thr	Gly	Glu	Pro	Gly	Thr	Thr	Ile	Thr
				965					970					975	
Leu	Tyr	Ser	Gly	Thr	Thr	Val	Leu	Gly	Thr	Ala	Leu	Val	Ser	Ala	Asn

			980					985					990				
Gly	Gln	Trp	Ser	Ile	Thr	Leu	Gln	Thr	Ala	Leu	Pro	Asp	Gly	Gly	His		
995								1000					1005				
Val	Leu	Thr	Ala	Thr	Ala	Val	Asp	Ala	Asn	Asn	Asn	Leu	Ser	Gly	Thr		
1010								1015					1020				
Ser	Asn	Thr	Trp	Ser	Ile	Thr	Val	Asp	Thr	Ala	Ala	Pro	Gly	Ala	Pro		
1025			1030					1035					1040				
Ala	Ile	Thr	Gln	Val	Ile	Asp	Asp	Val	Pro	Gly	Arg	Thr	Gly	Ala	Leu		
			1045					1050					1055				
Asp	Thr	Asn	Glu	Thr	Thr	Asn	Asp	Thr	Leu	Pro	Thr	Leu	Asn	Gly	Thr		
			1060					1065					1070				
Gly	Glu	Pro	Gly	Ser	Thr	Val	Thr	Ile	Arg	Leu	Asp	Gly	Gln	Asp	Ile		
1075								1080					1085				
Gly	Thr	Ala	Val	Val	Asn	Ser	Gly	Gly	Ala	Trp	Thr	Phe	Thr	Pro	Ala		
1090			1095					1100									
Thr	Pro	Leu	Val	Asn	Gly	Gln	His	Thr	Phe	Thr	Val	Val	Ala	Ser	Asp		
1105			1110					1115					1120				
Ala	Ala	Gly	Asn	Ala	Ser	Ala	Pro	Ser	Ala	Gly	Phe	Thr	Leu	Thr	Val		
			1125					1130					1135				
Asp	Thr	Thr	Pro	Pro	Pro	Ala	Ala	Thr	Ile	Asp	Thr	Val	Ser	Asp	Asn		
			1140					1145					1150				
Val	Gly	Pro	Val	Gln	Leu	Pro	Leu	Asn	Ser	Gly	Asp	Thr	Thr	Asp	Asp		
1155								1160					1165				
Thr	Leu	Pro	Gln	Leu	Gln	Gly	Thr	Ala	Pro	Asp	Gly	Thr	Thr	Ile	Thr		
1170			1175					1180									
Ile	Tyr	Asp	Gly	Thr	Thr	Leu	Leu	Gly	Thr	Ala	Val	Leu	Asp	Gly	Ser		
1185			1190					1195					1200				
Gly	Gly	Trp	Ser	Phe	Thr	Pro	Thr	Thr	Pro	Leu	Thr	Asp	Gly	Pro	His		
			1205					1210					1215				
Ser	Leu	Thr	Val	His	Ala	Thr	Asp	Glu	Ala	Gly	Asn	Thr	Thr	Ile	Ser		
			1220					1225					1230				
Pro	Pro	Phe	Glu	Leu	Ala	Ile	Asn	Thr	Thr	Ala	Pro	Ala	Thr	Pro	Asp		
1235								1240					1245				
Ile	Pro	Glu	Ile	Thr	Val	Asn	Pro	Asp	Gly	Gly	Thr	Pro	Gly	Thr	Ala		
1250			1255					1260									
Leu	Asn	Pro	Gly	Glu	Thr	Thr	Arg	Asp	Thr	Thr	Pro	Thr	Leu	Ser	Gly		
1265			1270					1275					1280				
Ser	Gly	Thr	Pro	Gly	Asp	Ile	Val	Asn	Ile	Tyr	Asp	Gly	Ala	Thr	Lys		
			1285					1290					1295				
Ile	Gly	Glu	Ala	Glu	Ile	Asp	Gly	Asp	Gly	Asn	Trp	Ser	Trp	Thr	Pro		
			1300					1305					1310				
Asp	Asp	Pro	Leu	Pro	Asp	Gly	Thr	Tyr	Asp	Leu	Ser	Leu	Thr	Val	Thr		
1315								1320					1325				
Asn	Gln	Asp	Ser	Ala	Gly	Asn	Glu	Ser	Ala	Pro	Ser	Thr	Pro	Val	Thr		
1330			1335					1340									
Ile	Thr	Ile	Asp	Thr	Asp	Ala	Pro	Ala	Gln	Pro	Gly	Thr	Pro	Thr	Val		
1345			1350					1355					1360				
Thr	Asp	Ser	Val	Ser	Gln	Ile	Thr	Gly	Pro	Val	Leu	Asp	Gly	Glu	Ser		
			1365					1370					1375				
Thr	Asn	Asp	Pro	Arg	Pro	Val	Leu	Ser	Gly	Thr	Gly	Thr	Pro	Asn	Asp		
			1380					1385					1390				
Val	Ile	Thr	Ile	Tyr	Asp	Gln	Val	Gly	Thr	Gly	Glu	Pro	Gln	Ala	Val		
1395								1400					1405				
Gly	Ser	Val	Thr	Val	Asp	Gly	Asn	Gly	Asn	Trp	S						

Gln	Asn	Gly	Glu	Ser	Thr	Asn	Asp	Thr	Thr	Pro	Gly	Ile	Gly	Gly	Thr
1475						1480				1485					
Gly	Thr	Thr	Gly	Glu	Thr	Val	Ile	Ile	Tyr	Asn	Asn	Gly	Val	Glu	Val
1490						1495				1500					
Ala	Arg	Val	Glu	Val	Val	Asn	Asn	Glu	Trp	Ser	Tyr	Thr	Leu	Pro	Thr
1505				1510				1515		1520					
Gln	Thr	Asp	Gly	Pro	Leu	Asn	Ile	Thr	Val	Ala	Ala	Val	Asp	Asp	Ala
				1525				1530		1535					
Gly	Asn	Val	Ser	Pro	Val	Ser	Pro	Val	Phe	Thr	Val	Glu	Val	Asp	Thr
1540								1545		1550					
Gln	Ala	Pro	Thr	Val	Pro	Gln	Ile	Asp	Ala	Val	Ser	Asp	Ser	Gln	Leu
1555						1560				1565					
Thr	Asn	Ser	Val	Leu	Tyr	Thr	Arg	Asp	Gly	Thr	Pro	Thr	Leu	Thr	Gly
1570						1575				1580					
Ile	Gly	Glu	Pro	Gly	Ser	Ser	Val	Thr	Val	Ser	Val	Asp	Gly	Val	Ala
1585				1590						1595				1600	
Ser	Pro	Val	Val	Val	Glu	Val	Gln	Pro	Asn	Gly	Thr	Trp	Ser	Trp	Thr
				1605				1610		1615					
Ala	Asp	Pro	Ala	Leu	Thr	Glu	Gly	Pro	His	Thr	Phe	Ser	Val	Val	Ala
1620						1625				1630					
Ser	Asp	Ala	Ala	Gly	Asn	Thr	Ser	Ala	Ser	Ser	Gly	Asp	Leu	Ser	Val
1635						1640				1645					
Thr	Val	Asp	Thr	Leu	Pro	Pro	Ala	Thr	Pro	Thr	Asn	Met	Thr	Ile	Ala
1650						1655				1660					
Ala	Glu	Gly	Thr	Pro	Leu	Thr	Gly	Thr	Ala	Asp	Asp	Gly	Thr	Thr	Val
1665				1670				1675		1680					
Thr	Val	Arg	Asp	Ala	Asn	Gly	Asn	Ile	Ile	Gly	Thr	Gly	Val	Ala	Thr
				1685				1690		1695					
Gly	Gly	Ser	Phe	Tyr	Ile	Ala	Leu	Ser	Pro	Ala	Gln	Leu	Asp	Ala	Ala
1700						1705				1710					
Thr	Leu	Thr	Leu	Ile	Ala	Thr	Asp	Pro	Ala	Gly	Asn	Ala	Ser	Ser	Ser
1715						1720				1725					
Thr	Thr	Phe	Asp	Val	Pro	Asp	Ser	Pro	Leu	Glu	Leu	Pro	Ala	Val	Pro
1730						1735				1740					
Val	Ile	Thr	Ala	Ile	Asn	Asp	Asp	Val	Asp	Pro	Val	Thr	Gly	Asp	Val
1745				1750				1755		1760					
Lys	Asp	Lys	Thr	Thr	Asn	Asp	Thr	Thr	Pro	Thr	Leu	Thr	Gly	Thr	Ala
				1765				1770		1775					
Asp	Pro	Gly	Ser	Val	Ile	Ala	Ile	Tyr	Gln	Asp	Gly	Ser	Leu	Leu	Pro
1780								1785		1790					
Val	Thr	Thr	Val	Val	Ala	Asp	Thr	Asn	Gly	Asn	Trp	Ser	Tyr	Thr	Pro
1795						1800				1805					
Leu	Leu	Pro	Leu	Thr	Glu	Gly	Pro	His	Thr	Phe	Ala	Val	Thr	Ala	Thr
1810				1815				1820		1825					
Asn	Thr	Thr	Thr	Gly	Ala	Thr	Ser	Gly	Gln	Ser	Pro	Val	Ala	Thr	Val
182															

1955				1960				1965							
Pro	Ser	Gly	Asp	Pro	Thr	Asn	Asp	Thr	Thr	Pro	Thr	Leu	Thr	Gly	Thr
1970						1975				1980					
Ala	Glu	Pro	Asn	Ser	Val	Val	Ala	Ile	Phe	Asp	Gly	Thr	Thr	Gln	Ile
1985						1990				1995				2000	
Gly	Thr	Val	Ala	Ala	Asp	Gly	Thr	Gly	Ala	Trp	Thr	Phe	Thr	Pro	Glu
						2005				2010				2015	
Thr	Ala	Leu	Gly	Glu	Gly	Thr	His	Asp	Phe	Thr	Val	Arg	Ala	Thr	Asp
						2020				2025				2030	
Pro	Gln	Gly	Asn	Val	Ser	Gln	Pro	Ser	Asn	Ala	Trp	Ser	Val	Glu	Ile
Asp	Leu	Thr	Ala	Pro	Gln	Val	Pro	Thr	Ile	Val	Thr	Val	Ser	Asp	Asn
2050						2055									
Ala	Pro	Gly	Gly	Val	Thr	Gly	Pro	Leu	Thr	Ala	Gly	Gln	Val	Thr	Asn
2065						2070				2075					
Asp	Thr	Thr	Pro	Thr	Leu	Ser	Gly	Thr	Gly	Gln	Ala	Gly	Thr	Thr	Ile
						2085				2090				2095	
His	Val	Leu	Asn	Asn	Gly	Val	Glu	Ile	Gly	Thr	Thr	Thr	Val	Asp	Gly
						2100				2105				2110	
Asn	Gly	Asn	Trp	Thr	Phe	Thr	Pro	Asp	Pro	Val	Leu	Thr	Asp	Gly	Thr
						2115				2120				2125	
Tyr	Asn	Leu	Arg	Val	Asn	Ala	Ser	Asp	Asp	Val	Gly	Asn	Val	Ser	Ala
2130						2135									
Asn	Ser	Pro	Val	Phe	Ala	Phe	Thr	Val	Asp	Thr	Thr	Gly	Pro	Ala	Ala
2145						2150				2155					
Pro	Val	Val	Thr	Thr	Val	Ile	Asp	Asp	Val	Ser	Pro	Gly	Thr	Gly	Ile
						2165				2170				2175	
Ile	Ala	Ser	Asn	Gly	Ser	Thr	Asn	Asp	Thr	Arg	Pro	Thr	Phe	Asn	Gly
						2180				2185				2190	
Thr	Gly	Glu	Val	Gly	Ala	Thr	Val	His	Val	Ile	Val	Asp	Asp	Val	Glu
						2195				2200				2205	
Ile	Gly	Thr	Ala	Val	Val	Asn	Ala	Gln	Gly	Asn	Trp	Thr	Phe	Thr	Pro
2210						2215				2220					
Thr	Thr	Ala	Leu	Gly	Glu	Gly	Pro	His	Thr	Ile	Thr	Phe	Asn	Ala	Thr
2225						2230				2235					
Asp	Ala	Ala	Gly	Asn	Thr	Gly	Val	Thr	Ser	Pro	Pro	Phe	Asn	Leu	Thr
						2245				2250				2255	
Val	Asp	Thr	Ser	Val	Pro	Asp	Ala	Pro	Val	Phe	Thr	Pro	Ala	Thr	Asp
						2260				2265				2270	
Asn	Ala	Gly	Pro	Val	Leu	Gly	Pro	Val	Ala	Ser	Gly	Gln	Ser	Thr	Asp
						2275				2280				2285	
Asp	Thr	Thr	Pro	Thr	Leu	Asn	Gly	Thr	Ala	Ala	Ala	Asn	Ala	Thr	Ile
2290						2295				2300					
Thr	Ile	Tyr	Glu	Asn	Gly	Gln	Pro	Val	Gly	Thr	Ala	Val	Ala	Asp	Ala
2305						2310				2315					
Asn	Gly	Val	Trp	Ser	Phe	Thr	Thr	Gly	Thr	Leu	Ala	Asn	Gly	Ser	His
						2325				2330				2335	
Thr	Trp	Thr	Ala	Thr	Ala	Thr	Asp	Ala	Ala	Gly	Asn	Ile	Ser	Pro	Ala
						2340				2345				2350	
Ser	Pro	Gly	Phe	Thr	Leu	Val	Val	Asp	Thr	Thr	Val	Pro	Ala	Ala	Pro
						2355				2360				2365	
Val	Ile	Thr	Gln	Ala	Ile	Asp	Asp	Val	Gly	Thr	Ile	Thr	Gly	Ala	Ile
2370						2375				2380					
Gly	Ser	Gly	Gln	Thr	Thr	Asn	Asp	Pro	Leu	Pro	Arg	Leu	Val	Gly	Thr
2385						2390				2395					
Ser	Glu	Pro	Leu	Ala	Thr	Val	Asn	Ile	Tyr	Glu	Gly	Thr	Thr	Leu	Val
						2405				2410				2415	
Gly	Thr	Gly	Thr	Ala	Asp	Ala	Asn	Gly	Asn	Trp	Thr	Val	Asp	Ile	Thr
						2420				2425				2430	
Val	Pro	Leu	Gly	Thr	Gly	Ser	His	Thr	Phe	Thr	Ala	Glu	Ala	Thr	Asp
						2435				2440				2445	

Gln Ala Gly Asn Thr Gly Ala Pro Ser Ala Asp Phe Ser Leu Ile Ile
 2450 2455 2460
 Asp Thr Thr Pro Pro Ala Leu Pro Val Leu Thr Ser Val Thr Asp Asp
 2465 2470 2475 2480
 Val Gly Asn Ala Ala Thr Pro Val Ala Asn Gly Gly Leu Thr Asn Asp
 2485 2490 2495
 Ala Arg Pro Thr Leu Thr Gly Thr Ala Glu Ala Gly Ala Thr Val Thr
 2500 2505 2510
 Ile Tyr Asp Asn Gly Val Gln Ile Gly Thr Ala Val Ala Thr Gly Gly
 2515 2520 2525
 Ala Trp Ser Phe Thr Pro Ser Thr Pro Leu Ala Asp Gly Pro His Asn
 2530 2535 2540
 Leu Thr Phe Ser Ala Thr Asp Ala Val Gly Asn Ala Ser Ala Gln Thr
 2545 2550 2555 2560
 Gly Gly Tyr Thr Ile Asn Val Asp Ala Thr Ala Pro Val Ala Pro Ala
 2565 2570 2575
 Ile Thr Ser Ile Val Asp Asp Val Gly Thr Val Thr Gly Pro Val Thr
 2580 2585 2590
 Gly Thr Asn Pro Thr Asn Asp Thr Arg Pro Thr Leu Asn Gly Thr Ala
 2595 2600 2605
 Glu Ala Asn Ala Thr Val Arg Ile Tyr Asp Gly Thr Thr Leu Val Gly
 2610 2615 2620
 Thr Val Thr Ala Asp Ala Asn Gly Asn Trp Thr Leu Pro Gln Thr Ser
 2625 2630 2635 2640
 Thr Thr Leu Ile Glu Gly Glu His Asn Phe Thr Ala Thr Ala Thr Asp
 2645 2650 2655
 Ala Ala Gly Asn Thr Ser Ala Pro Ser Pro Ile Ile Thr Ile Asn Val
 2660 2665 2670
 Asp Leu Thr Pro Pro Ala Ala Pro Thr Gly Leu Ala Val Ile Thr Asn
 2675 2680 2685
 Gly Thr Gln Val Thr Gly Thr Ala Glu Ala Gly Ser Thr Val Thr Ile
 2690 2695 2700
 Thr Ser Ser Thr Gly Thr Val Leu Gly Thr Ala Val Ala Asp Gly Ser
 2705 2710 2715 2720
 Gly Asn Phe Ser Ala Thr Leu Thr Pro Pro Gln Thr Gly Gly Glu Ser
 2725 2730 2735
 Leu Ile Val Phe Ala Thr Asp Lys Ala Gly Asn Ala Gly Ile Thr Thr
 2740 2745 2750
 Ser Val Ile Ala Pro Ile Thr Thr Ile Pro Asn Ala Pro Val Ile Ala
 2755 2760 2765
 Asn Ile Asp Asp Asn Val Gly Thr Val Thr Gly Asn Leu Thr Asn Gly
 2770 2775 2780
 Lys Thr Thr Asp Asp Thr Thr Pro Thr Leu Ser Gly Thr Ala Gln Pro
 2785 2790 2795 2800
 Asn Ala Thr Ile Thr Leu Tyr Asn Asn Gly Val Leu Met Gly Thr Val
 2805 2810 2815
 Thr Ala Asn Ala Ser Gly Asn Trp Ser Phe Thr Thr Pro Val Leu Ser
 2820 2825 2830
 Glu Gly Pro His Ala Phe Thr Ala Thr Ala Ser Asn Gly Ser Gly Thr
 2835 2840 2845
 Ser Pro Ile Ser Thr Ser Thr Thr Val Ile Val Asp Leu Thr Ala Pro
 2850 2855 2860
 Thr Ala Pro Thr Gly Thr Phe Asn Ala Asp Gly Ser Val Leu Thr Gly
 2865 2870 2875 2880
 Ser Ala Glu Ala Gly Ser Thr Val Thr Ile Arg Leu Ala Asp Asn Ser
 2885 2890 2895
 Thr Val Thr Ala Thr Ala Asp Ser Asn Gly Ser Trp Ser Tyr Thr Phe
 2900 2905 2910
 Leu Asn Lys Gln Thr Glu Gly Gln Thr Leu Gln Ile Thr Ala Thr Asp
 2915 2920 2925
 Ala Ala Gly Asn Val Ser Leu Pro Gly Ser Ala Leu Ala Pro Val Val

2930	2935	2940
Pro Leu Ser Ala Ser Thr Asn Val Glu Glu Leu Ala Leu Thr Thr Thr		
2945	2950	2955
Ala Thr Val Thr Asn Ser Gln Tyr Ser Asp Tyr Gly Phe Leu Leu Val		2960
	2965	2970
Gly Ala Val Gly Asn Val Leu Thr Leu Leu Gly Asn Asp Thr Ala Gln		2975
	2980	2985
Val Gly Phe Thr Val Gly Asn Gly Gly Ser Ala Asp Ile Ala Val Asn		2990
	2995	3000
Ala Asn Ala Thr Gly Ala Val Leu Ser Leu Leu Asn Thr Leu Glu Leu		3005
	3010	3015
Val Val Gln Arg Phe Asp Ala Ala Asn Asn Thr Trp Thr Thr Val Val		3020
	3025	3030
Asp Thr Gly Gln Pro Gln Phe Ala Asp Leu Leu Thr Leu Gly Ala Thr		3035
	3045	3050
Gly Val Ser Leu Asn Leu Thr Gly Leu Ala Asp Gly Gln Tyr Arg Val		3055
	3060	3065
Leu Ser Tyr Asn Thr Asn Leu Leu Ala Thr Gly Ser Tyr Thr Ser Leu		3070
	3075	3080
Asp Val Ala Val Lys Glu Thr Ser Ala Gly Thr Val Ser Gly Glu Thr		3085
	3090	3095
Asn Ile Val Gly Asn Val Ile Thr Asp Val Asp Pro Thr Ala Gly Ser		3100
	3105	3110
Asp Asn Ala Pro Ala Gly Thr Thr Val Thr Ala Val Thr Asn Ala Gln		3115
	3125	3130
Gly Ser Thr Thr Ser Val Thr Ala Asp Gly Thr Val Ile Gln Gly Gln		3135
	3140	3145
Tyr Gly Thr Leu Thr Ile Asn Leu Asp Gly Ser Tyr Thr Tyr Asn Leu		3150
	3155	3160
Thr Asn Thr Ser Ala Ala Val Ile Gly Arg Thr Glu Asn Phe Thr Tyr		3165
	3170	3175
Thr Ile Thr His Asn Gly Thr Ser Ala Ser Ala Asn Leu Val Leu Ser		3180
	3185	3190
Leu Gly Glu Gly Thr Ser Ser Ser Gly Ile Val Ala Val Asp Asp Thr		3195
	3205	3210
Ala Ser Leu Thr Phe Asp Thr Thr Val Glu Ala Ile Asn Asn Gly Thr		3215
	3220	3225
Ser Ser Gln Gly Gly Phe Thr Leu Val Gly Ile Asn Leu Gly Asn Thr		3230
	3235	3240
Leu Gly Leu Asn Leu Leu Asp Asp Leu Ala Asn Pro Ile Ile Tyr Asn		3245
	3250	3255
Val Glu Glu Gly Thr Thr Arg Thr Met Thr Val Gln Ala Ser Val Gly		3260
	3265	3270
Gly Val Ala Leu Ala Ser Val Phe Asp Leu Tyr Ile Tyr Lys Phe Asn		3275
	3285	3290
Asn Ala Thr Gln Thr Phe Glu Gln Met Arg Val Glu Pro Gly Trp Leu		3295
	3300	3305
Arg Ala Pro Leu Leu Gly Gly Thr Ser Pro Gln Leu Thr Leu Asn Leu		3310
	3315	3320
Pro Ala Gly Glu Tyr Leu Phe Leu Leu Asn Thr Ala Ala Gly Ile Thr		3325
	3330	3335
Ala Leu Thr Ala Tyr Thr Leu Asn Val Leu Gln Asp His Val Tyr Ser		3340
	3345	3350
Val Ala Ser Val Ser Glu Ser Thr Thr Gly Asp Val Leu Ala Asp Asp		3355
	3365	3370
Ile Ala Pro Ala Gly Thr Val Val Ser Asp Val Asn Gly Val Ala Val		3375
	3380	3385
Asn Ser Ser Gly Leu Thr Glu Ile Thr Gly Glu Tyr Gly Thr Leu Arg		3390
	3395	3400
Ile Asn Ala Ala Gly Glu Tyr Thr Thr Thr Leu Asn Ser Gly Val Gly		3405
	3410	3415
		3420

Ala Asp His Ile Ser Thr Pro Asp Thr Phe Val Tyr Thr Ile Thr Ala
 3425 3430 3435 3440
 Pro Asp Gly Ser Lys Asp Thr Ala Ser Leu Asn Ile Thr Pro Thr Ala
 3445 3450 3455
 Arg Pro Met Asp Ala Val Asn Asp Val Ser Thr Ala Met Asp Val Thr
 3460 3465 3470
 Thr Val His His Thr Ala Ala Tyr Ser Asp Thr Thr Val Gly Ser Ala
 3475 3480 3485
 Ser Trp Asn Ala Ala Leu Leu Ala Ser Thr Gln Gly Ser Gly Ser Gly
 3490 3495 3500
 Thr Phe Val Val Asp Pro Asn Thr Ala Leu His Asn Val Val Leu Ser
 3505 3510 3515 3520
 Phe Asn Val Ala Ser Leu Leu Thr Leu Thr Gly Leu Thr Val Asp Trp
 3525 3530 3535
 Thr Leu Ser Asn Gly Ala Thr Thr Val Arg Thr Gly Ser Phe Asn Gly
 3540 3545 3550
 Gly Leu Leu Leu Gly Gly Thr Ala Thr Ile Asn Leu Thr Gly Leu Asp
 3555 3560 3565
 Leu Glu Ala Gly Thr Tyr Thr Leu Ser Tyr Thr Gly Lys Met Gly Pro
 3570 3575 3580
 Leu Gly Val Gly Asn Ile Thr Ile Thr Pro Ser Val Thr Gly Thr Ser
 3585 3590 3595 3600
 Tyr Ser Leu Ser Gln Phe Asp Ala Thr Gly Thr His Thr Val Asp Gly
 3605 3610 3615
 Asn Ile Phe Asp Gly Thr Asp Ser Ala Gly Ala Met Asp Gln Leu His
 3620 3625 3630
 Ser Val Asp Thr Arg Val Ser Ile Thr Gly Tyr Asp Gly Val Thr Thr
 3635 3640 3645
 Thr Leu Asp Pro Tyr Thr Gly Ser Thr Met Ser Asn Ile Thr Gly His
 3650 3655 3660
 Tyr Gly Thr Leu Ala Ile Ala Ala Asp Gly Ser Tyr Thr Tyr Thr Leu
 3665 3670 3675 3680
 Asn Pro Gly Ile Ser Leu Ser Thr Ile Thr Ser Lys Glu Val Phe Asn
 3685 3690 3695
 Tyr Thr Leu Thr Asp Ala Asn Gly Val Lys Asp Thr Ala Ser Leu Thr
 3700 3705 3710
 Ile Asp Met Ala Pro Lys Phe Val Ser Ser Glu His Asn Asp Val Ile
 3715 3720 3725
 Ser Gly Thr Ala Tyr Gly Asp Thr Leu Ile Tyr Gln Val Leu Asn Asn
 3730 3735 3740
 Thr Ala Gly Asn Ala Thr Ala Gly Asn Ser Thr Gly Asp His Trp Thr
 3745 3750 3755 3760
 Asn Phe Ser Leu Thr Gln Gly Asp Lys Ile Asp Ile Gly Asp Leu Leu
 3765 3770 3775
 Val Gly Trp Asn Gly Ser Ala Ser Thr Leu Gly Asn Tyr Val Ser Val
 3780 3785 3790
 Ser Gln Ser Gly Asn Asn Thr Val Ile Ser Ile Asp Arg Asp Gly Thr
 3795 3800 3805
 Gly Ala Ala Tyr Thr Lys Ser Thr Leu Val Thr Leu Asp Asn Val Gln
 3810 3815 3820
 Thr Thr Tyr Asp Glu Leu Val Asn Gln Gln His Ile Ile Thr
 3825 3830 3835

<210> 10138

<211> 742

<212> PRT

<213> Enterobacter cloacae

<400> 10138

Lys Pro His His Pro Asp Arg Gly Asp Pro Ala Met Lys Gln Arg Asp
 1 5 10 15

Ile Pro Gln Gly Glu Asn Met Thr Asp Gln Ala Leu Glu Gln Trp Ala
 20 25 30
 Gln Ala Phe Gly Tyr Val Ala Thr Arg Tyr Arg Val Ala Cys Ser Pro
 35 40 45
 Gly Ser Leu Val Ala Gly Ala Pro Trp Leu Lys Gly Lys Pro Met Val
 50 55 60
 Pro Ala Leu Thr Gln Leu Ala Arg Glu Ala Gly Leu Thr Phe Gln Leu
 65 70 75 80
 Leu Thr Ala Asp Gln Gln Ser Ile Asn Ser Trp Arg Leu Pro Val Val
 85 90 95
 Val Glu Leu Asn Asp Gly Lys Ile Gly Val Ile Asp Asn Phe Asp Gly
 100 105 110
 Glu Asp Thr Leu Glu Val Ser Phe Phe Asp Asp Ser Thr His Thr Asn
 115 120 125
 Arg Leu Ser Met Ser Ala Met Leu Pro Ala Ile Arg His Val Ile Ala
 130 135 140
 Leu Arg Pro Leu Ala Ala Leu Lys Asp Ser Arg Val Asp Ala Tyr Ile
 145 150 155 160
 Ser Lys Tyr Arg Pro Asp Trp Leu Tyr Arg Leu Val Met Arg Asp Leu
 165 170 175
 Arg Pro Tyr Ser Trp Val Met Leu Ala Ala Leu Phe Ile Asn Val Leu
 180 185 190
 Ser Leu Ser Gly Ile Val Phe Ser Met Gln Val Tyr Asp Arg Val Ile
 195 200 205
 Pro Ala Gln Ser Tyr Pro Thr Leu Tyr Val Leu Thr Ile Gly Val Leu
 210 215 220
 Ile Ala Thr Leu Phe Gly Phe Val Leu Arg Val Ala Arg Gly His Ile
 225 230 235 240
 Met Asp Leu Leu Gly Lys Arg Ser Asp Leu Arg Val Ser Asp Arg Val
 245 250 255
 Phe Gly His Ala Leu Arg Leu Arg His Ser Ala Ile Pro Arg Ser Thr
 260 265 270
 Gly Ser Phe Ile Ser Gln Leu Arg Glu Leu Glu Gln Ile Arg Glu Met
 275 280 285
 Val Thr Ser Ser Thr Ile Ser Thr Ile Val Asp Leu Pro Phe Phe Ile
 290 295 300
 Leu Phe Val Ile Val Leu Ala Ile Ile Ala Pro Gln Leu Ala Trp Ile
 305 310 315 320
 Ala Pro Val Ala Ala Val Ile Met Val Leu Pro Gly Leu Leu Leu Gln
 325 330 335
 Lys Lys Leu Ala Glu Leu Ala Lys Gln Ser Ala His Glu Ser Thr Leu
 340 345 350
 Arg Asn Ala Val Leu Val Glu Ser Val Gln Gly Leu Glu Asp Ile Lys
 355 360 365
 Leu Met Gln Ala Glu Asn Arg Phe Leu Gln Gln Trp Asn Ser Tyr Ile
 370 375 380
 Gln Ile Thr Ala Glu Ser Gly Leu Arg Thr Arg Glu Leu Thr Gln Asn
 385 390 395 400
 Leu Ile Ser Trp Gly Met Thr Ile Gln Ser Leu Val Tyr Ala Gly Val
 405 410 415
 Ile Val Val Gly Ala Pro Met Val Ile Asp Gly Thr Leu Thr Thr Gly
 420 425 430
 Ser Val Val Ala Ala Ser Met Leu Ala Ser Arg Met Ile Ala Pro Met
 435 440 445
 Ala Thr Leu Cys Gly Val Leu Ala Arg Trp Gln Gln Val Lys Ala Ala
 450 455 460
 Lys Glu Gly Leu Asp Ser Ile Met Gln Leu Pro Thr Glu Asn Gln Arg
 465 470 475 480
 Glu Glu Thr Pro Ile Arg Gln Asp Val Leu Arg Gly His Tyr Leu Phe
 485 490 495
 Glu Gln Ala Gln Phe Arg Tyr His Pro Glu Asp Pro Arg Met Ala Leu

500 505 510
 Arg Ile Asn Arg Leu Glu Ile Lys Ala Gly Glu Lys Val Ala Ile Leu
 515 520 525
 Gly Arg Asn Gly Ala Gly Lys Ser Thr Leu Leu Gln Ala Met Ala Gly
 530 535 540
 Gly Met Asp Leu Ala Gly Glu Leu Arg Leu Asp Asn Leu Ser Leu
 545 550 555 560
 Pro His Leu Asp Val Ala Asp Val Arg Arg Asn Val Gly Phe Met Thr
 565 570 575
 Gln Asn Ala Arg Leu Phe Tyr Gly Thr Leu Arg Glu Asn Ile Thr Leu
 580 585 590
 Gly Met Pro Arg Ala Thr Asp Lys Glu Ile Phe Glu Val Leu Glu Met
 595 600 605
 Cys Gly Ala Ala Ser Phe Val Gln Lys Leu Pro Lys Gly Leu Asp Tyr
 610 615 620
 Pro Ile Met Glu Asn Gly Val Gly Leu Ser Gly Gly Gln Arg Gln Ser
 625 630 635 640
 Ile Leu Leu Ala Arg Met Leu Leu Arg Asp Pro Asn Ile Val Leu Met
 645 650 655
 Asp Glu Pro Thr Ala Ser Leu Asp Glu His Thr Glu Arg Glu Phe Ile
 660 665 670
 Gln Arg Leu Gly Ala Trp Leu Gly Asn Arg Thr Leu Val Val Ala Thr
 675 680 685
 His Arg Val Pro Val Leu Glu Leu Val Glu Arg Val Val Leu Lys
 690 695 700
 Asp Gly Met Leu Val Met Asp Ala Pro Lys Ala Gln Ala Leu Asn Asn
 705 710 715 720
 Ser Arg Met Gln Gln Gln Gln Gln Ala Thr Gly Arg Glu Trp Lys Asn
 725 730 735
 Glu Asn Gln Ser Ala
 740

<210> 10139

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 10139

Thr Asp Asn Thr Gly Leu Tyr Phe Ala Gly Gln Arg Glu Lys Gln Thr
 1 5 10 15
 Ile Ser Ile Ser Leu His Thr Ser Thr Arg Asn Thr Ser Glu Ala Ser
 20 25 30
 Pro Met Thr Leu Gln Gln Ala Leu Arg Lys Pro Thr Thr Pro Gly Glu
 35 40 45
 Val Leu Gln Tyr Glu Tyr Leu Glu Pro Leu Asn Leu Lys Ile Asn Asp
 50 55 60
 Leu Ala Glu Met Leu Asn Val His Arg Asn Thr Val Ser Ala Leu Val
 65 70 75 80
 Asn Asn Asn Arg Lys Leu Thr Ala Asp Met Ala Ile Lys Leu Ala Lys
 85 90 95
 Ala Leu Asn Thr Thr Ile Glu Phe Trp Leu Asn Leu Gln Leu Asn Val
 100 105 110
 Asp Ile Trp Glu Ala Gln Ser Asn Ser Arg Thr Gln Glu Glu Leu Ser
 115 120 125
 Arg Ile Lys Thr Val Ala Glu Val Met Ala Lys Arg Lys Ser Gly Lys
 130 135 140
 Pro Asp Val Ala
 145

<210> 10140

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 10140

```

Gln Ser Ser Asn Ile Asn Pro Val Tyr Leu Asn Phe Tyr Leu Leu Lys
1      5      10      15
Asn Glu Gly Ser Gln His Lys Glu Ser Ala Met Lys Ile Val Ile Ile
20      25      30
Gly Ala Ser Gly Thr Val Gly Arg Ala Val Thr Glu Glu Leu Ser Arg
35      40      45
Arg His Glu Val Ile Ser Val Gly Arg Thr Gln Gly Asp His Gln Val
50      55      60
Asp Ile Thr Ser Gln Ala Ser Val Gln Ala Leu Phe Glu Lys Ile Gly
65      70      75      80
Pro Val Asp Ala Ile Val Ser Ala Ser Gly Gly Val His Phe Gly Pro
85      90      95
Leu Ala Thr Met Thr Asp Gly Glu Phe Asn Arg Gly Leu Gln Asp Lys
100      105      110
Leu Leu Gly Gln Ile Arg Leu Ala Leu Thr Gly Gln His Tyr Leu Asn
115      120      125
Glu Gly Gly Ser Ile Thr Leu Ile Ser Gly Ile Val Ala His Glu Pro
130      135      140
Ile Ala Gln Gly Val Asn Ala Thr Thr Val Asn Ala Ala Leu Glu Gly
145      150      155      160
Phe Val Arg Ala Ala Ala Cys Glu Leu Pro Arg Gly Ile Arg Ile Asn
165      170      175
Leu Ile Ser Pro Thr Val Leu Thr Glu Ser Val Glu Ala Tyr Asp Gly
180      185      190
Phe Phe Pro Gly Phe Glu Ser Val Pro Ala Ala Thr Val Ala Gln Ala
195      200      205
Tyr Arg Arg Ser Val Glu Gly Val Gln Ser Gly Arg Val Tyr Lys Val
210      215      220
Gly Tyr
225

```

<210> 10141

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 10141

```

Gly Asn Ile Met Ser Leu Pro Leu Ile Ser Pro Gln Gln Ala Asn Ala
1      5      10      15
Leu Ile Ala Glu Gly Ala Lys Leu Ile Asp Ile Arg Asp Pro Asp Glu
20      25      30
Tyr Ala Arg Glu His Ile Pro Ala Ala His Ser Ile Pro Leu Asp Ser
35      40      45
Leu Pro Gly Gly Leu Asn Ala Ala Pro Gly Glu Thr Val Ile Phe His
50      55      60
Cys Gln Ser Gly Ala Arg Thr Ser Asn Asn Ala Ala Arg Leu Ala Gln
65      70      75      80
Ala Ala Ser Pro Ala Asn Ala Cys Val Val Glu Gly Gly Ile Gln Gly
85      90      95
Trp Lys Gln Ala Gly Leu Leu Thr Val Glu Asp Arg Ser Gln Pro Leu
100      105      110
Pro Leu Met Arg Gln Val Gln Ile Ala Ala Gly Leu Leu Ile Leu Cys
115      120      125
Gly Val Val Leu Gly Tyr Ser Val Ser Ser Gly Phe Phe Leu Leu Ser
130      135      140
Gly Phe Val Gly Ala Gly Leu Leu Phe Ala Gly Val Thr Gly Phe Cys
145      150      155      160

```

```
<210> 10142
<211> 80
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10143
<211> 591
<212> PRT
<213> Enterobacter cloacae
```

<div><400> 10143</div>																
Phe	His	Gln	Arg	Gln	Ala	Thr	Pro	Asn	Asp	Arg	Pro	Asp	Gln	Pro	His	
1				5					10					15		
Gln	Pro	Pro	Ala	Thr	Gly	Gly	Ala	Arg	Ser	Ala	Gly	Gly	Arg	His	Arg	
			20					25					30			
Asp	Gly	Leu	Arg	Ala	Gly	Leu	Trp	Arg	Ala	Arg	Arg	Ser	Gly	Gly	Gly	
		35					40					45				
Asp	Asp	Arg	Gly	Asp	Gln	Arg	Gly	Thr	Gly	Asp	Arg	Glu	Arg	Arg	Gln	
	50					55				60						
Pro	Ser	Ala	Gly	Asn	Ser	Arg	Leu	Arg	Ala	Arg	His	Arg	Ser	Gly	Ser	
65					70					75					80	
Ala	Val	Ala	Gly	Ala	Ala	Val	Pro	Ala	Ala	Asp	Arg	Arg	Arg	Arg	His	
				85					90						95	
Leu	Gly	Gln	Gln	Gln	His	Gln	His	Arg	Ile	Thr	Gly	Thr	Arg	Ile	Cys	
			100					105					110			
Leu	Gln	Arg	Gly	Glu	Ser	Ile	Met	Thr	Thr	Leu	Phe	Asn	Gln	Pro	Leu	
		115					120					125				
Asn	Val	Ile	Asn	Val	Gly	Ile	Ala	Met	Phe	Ser	Asp	Asp	Leu	Lys	Lys	
		130				135					140					
Gln	His	Val	Pro	Val	Thr	Gln	Leu	Asp	Trp	Thr	Pro	Pro	Gly	Gln	Gly	
145					150					155					160	
Asn	Met	Gln	Val	Val	Lys	Ala	Leu	Asp	Gln	Leu	Ala	Glu	Lys	Pro	Leu	
				165					170					175		
Ala	Glu	Lys	Ile	Ala	Ala	Ala	Asn	Lys	Ile	Ala	Leu	Glu	Arg	Ile	Ile	
			180					185					190			
Gln	Ser	His	Pro	Val	Leu	Val	Gly	Tyr	Asp	Gln	Ala	Ile	Asn	Val	Val	
		195					200					205				
Pro	Gly	Met	Thr	Arg	Thr	Thr	Ile	Leu	His	Ala	Gly	Pro	Pro	Val	Thr	
	210					215					220					
Trp	Glu	Asn	Met	Cys	Gly	Ala	Met	Lys	Gly	Ala	Val	Thr	Gly	Ala	Leu	
225					230					235					240	
Val	Phe	Glu	Gly	Leu	Ala	Thr	Asp	Leu	Glu	Asp	Ala	Ala	Arg	Leu	Ala	
				245					250					255		
Ala	Ser	Gly	Asp	Ile	Thr	Phe	Ser	Pro	Cys	His	Glu	His	Asp	Cys	Val	
			260					265					270			
Gly	Ser	Met	Ala	Gly	Val	Thr	Ser	Ala	Ser	Met	Phe	Met	His	Ile	Val	

```

      275              280              285
Glu Asn Lys Thr Tyr Gly Asn Arg Ala Phe Thr Asn Leu Ser Glu Gln
 290              295              300
Met Ala Lys Ile Leu Arg Met Gly Ala Asn Asp Gln Ser Val Ile Asp
305              310              315              320
Arg Leu Asn Trp Met Arg Asp Val Leu Gly Pro Met Leu Arg Asp Ala
      325              330              335
Met Asn Ile Ile Gly Glu Ile Asp Leu Arg Leu Met Leu Ala Gln Ala
      340              345              350
Leu His Met Gly Asp Glu Cys His Asn Arg Asn Asn Ala Gly Thr Thr
      355              360              365
Leu Leu Ile Gln Ala Leu Thr Pro Gly Leu Ile Gln Ala Gly Tyr Ser
      370              375              380
Val Thr Gln Gln Arg Glu Val Phe Glu Phe Val Ala Ser Ser Asp Tyr
385              390              395              400
Phe Ser Gly Pro Thr Trp Met Ala Met Cys Lys Ala Ala Leu Asp Ala
      405              410              415
Ala His Gly Ile Glu Tyr Ser Thr Val Val Thr Thr Met Ala Arg Asn
      420              425              430
Gly Tyr Glu Phe Gly Leu Arg Val Ser Gly Leu Pro Gly Gln Trp Phe
      435              440              445
Thr Gly Pro Ala Gln Gln Val Ile Gly Pro Met Phe Ala Gly Tyr Lys
      450              455              460
Pro Glu Asp Ser Gly Leu Asp Ile Gly Asp Ser Ala Ile Thr Glu Thr
465              470              475              480
Tyr Gly Ile Gly Gly Phe Ala Met Ala Thr Ala Pro Ala Ile Ala Ala
      485              490              495
Leu Val Gly Gly Thr Val Glu Glu Ala Ile Asp Phe Ser Arg Gln Met
      500              505              510
Arg Glu Ile Thr Leu Gly Glu Asn Pro Asn Val Thr Ile Pro Leu Leu
      515              520              525
Ser Phe Met Gly Ile Pro Thr Ala Ile Asp Ile Thr Lys Val Ala Gly
      530              535              540
Ser Gly Ile Leu Pro Val Ile Asn Thr Ala Ile Ala His Lys Asp Ala
545              550              555              560
Gly Ile Gly Met Ile Gly Ala Gly Ile Val His Pro Pro Phe Ser Cys
      565              570              575
Phe Glu Lys Ala Leu Leu Thr Phe Arg Asp Arg Tyr Phe Leu
      580              585              590

```

<210> 10144

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 10144

```

Arg Ser Ala Val Met Ser Gln Thr Thr Glu Lys Lys Pro Arg Leu Thr
1              5              10              15
Thr Ser Ala Met Ile Ala Ser Ile Ala Glu Glu Gly Gln Glu Thr Arg
      20              25              30
Ala Ala Pro Phe Gly His Ala Leu Val Lys Leu Ala Glu Gln Arg Pro
      35              40              45
Glu Val Val Gly Met Thr Ala Asp Leu Ser Lys Tyr Thr Asp Leu His
      50              55              60
Ile Phe Ala Gln Ala Tyr Pro Glu Arg Phe Phe Gln Met Gly Met Ala
65              70              75              80
Glu Gln Leu Leu Met Gly Ala Ala Gly Gly Met Ala Lys Glu Gly Phe
      85              90              95
Ile Pro Phe Ala Thr Thr Tyr Ala Val Phe Ala Thr Arg Arg Ala Tyr
      100              105              110
Asp Phe Ile His Gln Val Ile Ala Glu Glu His Leu Asn Val Lys Ile

```



```

      115              120              125
Cys Ala Ala Leu Pro Gly Leu Thr Thr Gly Tyr Gly Pro Ser His Gln
  130              135              140
Ala Thr Glu Asp Ile Ala Ile Met Arg Gly Ile Pro Gly Met Thr Ile
  145              150              155              160
Ile Asp Pro Cys Asp Ala Ile Asp Thr Glu Gln Ala Val Pro Ala Met
      165              170              175
Ala Ala His Asp Gly Pro Val Tyr Met Arg Leu Leu Arg Gly Lys Val
      180              185              190
Pro Val Val Leu Asp Gln Tyr Asn Tyr Gln Phe Lys Ile Gly Lys Ala
      195              200              205
Ala Leu Leu Glu Glu Gly Asn Asp Val Leu Ile Val Ala Ser Gly Leu
      210              215              220
Met Thr Met Arg Ala Leu Glu Ala Ala Lys Gln Leu Arg Lys Asp Asn
  225              230              235              240
Val Ser Val Ala Val Leu His Ser Pro Thr Ile Lys Pro Leu Asp Glu
      245              250              255
Glu Thr Ile Leu Ala Gln Ala Ala Lys Pro Gly Arg Leu Val Ile Val
      260              265              270
Ala Glu Asn His Ser Ser Val Gly Gly Leu Cys Glu Ala Val Ala Ser
      275              280              285
Leu Leu Met Arg Asn Arg Val Asn Val Asp Phe Asp Thr Val Ala Leu
      290              295              300
Pro Asp Ala Phe Leu Asp Ala Gly Ala Leu Pro Thr Leu His Asp Arg
  305              310              315              320
Tyr Gly Ile Ser Thr Thr Ala Met Val Glu Lys Ile Arg Arg Arg Leu
      325              330              335

```

<210> 10145

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 10145

```

Phe Asn Val Arg Cys Glu Gly Val Leu Gly Gly Lys Gly Tyr Ala Thr
  1              5              10              15
Ala Gly Gln Arg Glu Ala Glu His Lys Thr Gln Ile Val Ser Gly Tyr
      20              25              30
Leu Trp Phe Asn Cys His Ile Glu Arg Asp Ala Cys Phe Leu Lys Leu
      35              40              45
Pro Ala Ile Gly Gly Asn Val Arg Gly Arg Ala Pro Ala Asp Thr Pro
      50              55              60
Met Ser Asp Gln Leu Thr Gly Met Arg Arg Cys Ala Val Cys Arg Gln
  65              70              75              80
Ile Gly Arg

```

<210> 10146

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10146

```

Thr Met Asn Ile Asp Thr Asp Arg Leu Asp Asp Val Asn Ile Met Thr
  1              5              10              15
Pro Ser Val Arg Arg Leu Asp Ala Ser Val Ala Ala Val Phe Lys Glu
      20              25              30
Ala Ile Ala Arg Glu Ile Gly Val Asp Arg Lys Ala Leu Ile Val Asp
      35              40              45

```

Phe Ser Lys Ile Asp Phe Ile Asp Ser Ser Gly Leu Gly Ala Leu Val
 50 55 60
 Ser Leu Leu Lys Met Met Asn Gly Lys Gly Glu Met Met Leu Cys Ala
 65 70 75 80
 Leu Asn Pro Gly Ile Arg Asn Met Phe Thr Leu Thr Arg Met Asp Arg
 85 90 95
 Ile Phe Arg Ile Cys Pro Asp Arg Ala Thr Ala Leu Ser His Leu Asn
 100 105 110
 Gln

<210> 10147

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10147

Arg Glu Val Pro Met Ser Gly Lys Arg Tyr Pro Glu Glu Phe Lys Ile
 1 5 10 15
 Glu Ala Val Lys Gln Val Val Asp Arg Gly His Ser Val Ser Ser Val
 20 25 30
 Ala Thr Arg Leu Asp Ile Thr Thr His Ser Leu Tyr Ala Trp Ile Lys
 35 40 45
 Lys Tyr Gly Pro Asp Ser Ser Thr His Asn Glu Gln Ser Asp Ala Gln
 50 55 60
 Ala Glu Ile Arg Arg Leu Gln Lys Glu Leu Lys Arg Val Thr Asp Glu
 65 70 75 80
 Arg Asp Ile Leu Lys Lys Ala Ala Ala Tyr Phe Ala Lys Leu Ser Asp
 85 90 95

<210> 10148

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 10148

Lys Pro Phe Phe Thr Asp Ile Val Thr Phe Gln His Val Arg Gln Leu
 1 5 10 15
 Leu Leu Arg Ile Val Arg Val Glu Val Gly Lys Glu Thr Glu Ile Ala
 20 25 30
 Thr Val Asn Thr Asn Asn Leu Asn Ile Ile Ala Ser Gln Arg Ser Arg
 35 40 45
 Arg Ala Gln His Ile Ala Val Ala Thr Asp His His Gly Glu Ile Arg
 50 55 60
 Leu Leu Ala Asn Phe Arg Gln Arg Ala Gly Ser Asp Ala Phe Lys Leu
 65 70 75 80
 Gln Leu Leu Gly Asn Leu Leu Leu Asp His His Phe Ile Ala Phe Thr
 85 90 95
 Thr Gln Pro Ala Ile Gln His Phe Met Cys Arg Gln Cys Gly Arg Val
 100 105 110
 Thr Arg Met Ala Asp Asp Pro Asn Thr Pro Glu Met Ile Ile His Phe
 115 120 125
 Leu Glu Val Leu Val Pro Asp Glu
 130 135

<210> 10149

<211> 208

<212> PRT

<213> Enterobacter cloacae


```

Ile Ile Asn Gly Ala Gly Leu Cys Phe Ala Asn Ala Val Arg Arg Gly
  210          215          220
Pro Ile Gly Ile Val Gly Ala Ser Gly Thr Gly Ser Gln Glu Leu Ser
225          230          235          240
Val Arg Ile His Glu Phe Gly Gly Gly Val Ser Gln Leu Ile Gly Thr
          245          250          255
Gly Gly Arg Asp Leu Ser Glu Lys Ile Gly Gly Leu Met Met Leu Asp
          260          265          270
Ala Ile Asp Met Leu Glu Ala Asp Asp Ala Thr Arg Val Ile Ala Leu
          275          280          285
Ile Ser Lys Pro Pro Ala Pro Ala Val Ala Glu Lys Val Leu Ala Arg
          290          295          300
Ala Arg Ala Cys Arg Lys Pro Val Val Val Cys Phe Leu Gly Arg Asn
305          310          315          320
Glu Pro Pro Ala Asp Glu Asp Gly Leu Gln Phe Ala Arg Gly Thr Lys
          325          330          335
Glu Ala Ala Leu Lys Ala Val Leu Leu Thr Gly Ile Lys Lys Asp Asp
          340          345          350
Leu Asp Leu His Pro Leu Asn Trp Pro Leu Ile Glu Glu Val Arg Thr
          355          360          365
Arg Leu Thr Ser Gln Gln Lys Tyr Ile Arg Gly Leu Phe Cys Gly Gly
          370          375          380
Thr Leu Cys Asp Glu Ala Met Phe Ala Ala Leu Glu Lys Phe Asp Asp
385          390          395          400
Val Tyr Ser Asn Ile Gln Pro Asp Pro Ala Arg Arg Leu Lys Asp Ile
          405          410          415
Ser Val Ser Gln Ala His Thr Phe Leu Asp Phe Gly Asp Asp Phe
          420          425          430
Thr Asn Gly Lys Pro His Pro Met Ile Asp Pro Thr Asn Arg Ile Ser
          435          440          445
Arg Leu Leu Gln Glu Ala Arg Asp Pro Gln Val Gly Val Ile Val Met
          450          455          460
Asp Phe Val Leu Gly Phe Gly Ala His Asp Asp Pro Val Gly Val Met
465          470          475          480
Ile Glu Ala Ile Lys Glu Ala Gln Ala Ile Ala Asn Ala Asp Asn Arg
          485          490          495
Pro Leu Glu Ile Leu Gly Tyr Val Leu Gly Thr Asp Gln Asp Pro Gln
          500          505          510
Ser Leu Ala Gln Gln Cys Gln Leu Leu Thr Asp Ala Gly Val Ile Trp
          515          520          525
Ala Ser Ser Ser Thr Asn Thr Gly Leu Leu Ala Arg Glu Phe Val Cys
          530          535          540
Lys Gly Glu Lys Ala
545          550

```

<210> 10151

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 10151

```

Gly His Gln Asn Ala Pro Ser Lys Gly Asn Lys Met Lys Glu Leu Met
1          5          10          15
Val Val Ala Ile Gly Gly Asn Ser Ile Ile Lys Asp Asn Ala Ser Gln
          20          25          30
Ser Ile Glu His Gln Ala Gln Ala Val Lys Ala Val Ala Glu Ser Val
          35          40          45
Leu Glu Met Leu Ala Ser Asp Tyr Asp Ile Val Leu Thr His Gly Asn
          50          55          60
Gly Pro Gln Val Gly Leu Asp Leu Arg Arg Ala Glu Ile Ala His Glu
65          70          75          80

```

Arg Glu Gly Leu Pro Leu Thr Pro Leu Ala Asn Cys Val Ala Asp Thr
 85 90 95
 Gln Gly Gly Ile Gly Tyr Leu Ile Gln Gln Ala Leu Asn Asn Arg Leu
 100 105 110
 Ala Ala Arg Gly Glu Gln Lys Ala Val Thr Val Val Thr Gln Val Glu
 115 120 125
 Val Asp Lys Asn Asp Pro Gly Phe Thr His Pro Thr Lys Pro Ile Gly
 130 135 140
 Ala Phe Phe Ser Glu Ala Gln Arg Asp Glu Leu Gln Leu Ala His Pro
 145 150 155
 Asp Trp His Phe Val Glu Asp Ser Gly Arg Gly Tyr Arg Arg Val Val
 165 170 175
 Ala Ser Pro Gln Pro Leu Arg Ile Val Glu Ala Asp Ala Ile Lys Ala
 180 185 190
 Leu Thr Gln Lys Gly Phe Val Val Ile Gly Ala Gly Gly Gly Gly Ile
 195 200 205
 Pro Val Val Arg Ser Glu Gln Gly Asp Tyr Gln Ser Val Asp Ala Val
 210 215 220
 Ile Asp Lys Asp Leu Ser Thr Ala Leu Leu Ala Arg Glu Ile Arg Ala
 225 230 235
 Asp Val Leu Val Ile Thr Thr Gly Val Glu Lys Val Cys Val Asn Phe
 245 250 255
 Gly Lys Pro Asn Gln Gln Ala Leu Asp Ile Val Asn Val Ala Gln Met
 260 265 270
 Thr Arg Tyr Met Asp Glu Gly His Phe Pro Ala Gly Ser Met Leu Pro
 275 280 285
 Lys Ile Val Ala Ser Leu Glu Phe Leu Arg His Gly Gly Arg Arg Val
 290 295 300
 Ile Ile Thr Ser Pro Asp Cys Leu Pro Ala Ala Leu Arg Gly Glu Thr
 305 310 315 320
 Gly Thr His Ile Ile Asn Glu Gly Arg 330
 325 330

<210> 10152

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 10152

Val Met Ser Arg Ile Glu Gln Ala Val Pro Tyr Ile Lys Ala Lys Lys
 1 5 10 15
 Thr Asn Tyr Arg Phe Val Val Leu Ala Leu Ile Phe Ile Val Tyr Ala
 20 25 30
 Ile Asn Tyr Ala Asp Arg Thr Asn Ile Gly Ala Val Leu Pro Phe Ile
 35 40 45
 Ile Asp Glu Phe His Ile Asn Asn Phe Glu Ala Gly Ala Ile Ala Ser
 50 55 60
 Met Phe Phe Leu Gly Tyr Ala Leu Ser Gln Ile Pro Ala Gly Phe Phe
 65 70 75 80
 Ile Ala Lys Lys Gly Ile Arg Gly Met Val Ala Leu Ser Ile Phe Gly
 85 90 95
 Phe Ser Ala Phe Thr Trp Leu Met Gly Thr Ala Thr Ser Val Leu Gly
 100 105 110
 Leu Lys Cys Ile Arg Leu Gly Leu Gly Leu Thr Glu Gly Pro Cys Pro
 115 120 125
 Val Gly Leu Ala Ser Thr Ile Asn Asn Trp Phe Pro Pro Lys Glu Lys
 130 135 140
 Ala Thr Ala Thr Gly Val Tyr Ile Ala Ala Thr Met Phe Ala Pro Ile
 145 150 155 160
 Leu Val Pro Pro Leu Ala Val Trp Ile Ala Met Thr Trp Gly Trp Arg
 165 170 175

Trp Val Phe Phe Ser Phe Ala Ile Pro Gly Leu Val Ile Ala Val Leu
 180 185 190
 Trp Tyr Leu Leu Val Arg Thr Arg Pro Ser Glu Ser Ala Phe Val Ser
 195 200 205
 Lys Ala Glu Leu Glu Thr Ile Thr Ala Gly Gln Glu Thr Pro Asp Ala
 210 215 220
 Arg Arg Glu Asn Ile Val Ile Ser Pro Gly Phe Ala Arg Leu Asp Arg
 225 230 235 240
 Leu Ile Arg Val Arg Glu Leu Ala Pro Val Ser Thr Val Lys Gly Leu
 245 250 255
 Phe Thr Ser Lys Asn Ile Leu Gly Asp Cys Leu Ala Tyr Phe Met Met
 260 265 270
 Val Ser Val Leu Tyr Gly Leu Leu Thr Trp Ile Pro Leu Tyr Leu Val
 275 280 285
 Lys Glu Lys Gly Phe Thr Phe Met Ser Met Gly Leu Val Ala Ser Met
 290 295 300
 Pro Cys Ile Gly Gly Phe Ile Gly Ala Ile Phe Gly Gly Tyr Val Ser
 305 310 315 320
 Asp Lys Leu Leu Gly Arg Arg Arg Lys Pro Thr Met Met Phe Thr Ala
 325 330 335
 Ile Ser Thr Val Leu Met Met Val Ile Met Leu Asn Ile Pro Gln Ser
 340 345 350
 Thr Val Ala Val Cys Val Gly Leu Phe Phe Val Gly Leu Cys Leu Asn
 355 360 365
 Ile Gly Trp Pro Ala Phe Thr Ala Tyr Gly Met Ala Val Ala Asp Ser
 370 375 380
 Lys Thr Tyr Pro Ile Ala Ala Ser Ile Ile Asn Ser Gly Gly Asn Leu
 385 390 395 400
 Gly Gly Phe Val Ser Pro Met Leu Ala Gly Tyr Leu Leu Asp Lys Thr
 405 410 415
 Gly Ser Phe Asn Ser Val Phe Ile Tyr Phe Gly Ile Cys Ala Ala Ile
 420 425 430
 Gly Leu Ile Met Ile Met Leu Leu Glu Glu Pro Lys
 435 440 445

<210> 10153

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 10153

Trp Ser Lys Cys Met Leu Leu Lys Asn Lys Val Ala Val Ile Thr Gly
 1 5 10 15
 Ala Ala Ser Val Arg Gly Leu Gly Phe Ala Thr Ala Lys Leu Tyr Ala
 20 25 30
 Glu Gln Gly Ala Lys Val Val Ile Asp Leu Asn Ala Glu Ala Ser
 35 40 45
 Arg Ala Ala Ala Ala Ser Leu Gly Asp Glu His Leu Gly Leu Ala Ala
 50 55 60
 Asn Val Ser Asn Glu Leu Gln Val Asn Ala Ala Ile Glu Gln Val Leu
 65 70 75 80
 Gly Lys Tyr Gly Arg Ile Asp Ile Leu Val Asn Asn Ala Gly Ile Thr
 85 90 95
 Gln Pro Ile Lys Leu Met Asp Ile Lys Arg Glu Asn Tyr Asp Ala Val
 100 105 110
 Leu Asp Val Ser Leu Arg Gly Thr Leu Leu Met Ser Gln Ala Val Ile
 115 120 125
 Pro Thr Met Arg Ala Gln Lys Ser Gly Ser Ile Val Cys Ile Ser Ser
 130 135 140
 Val Ser Ala Gln Arg Gly Gly Gly Ile Phe Gly Gly Pro His Tyr Ser
 145 150 155 160

[illegible]

<400>	10154																
Gly	Asp	Thr	Thr	Met	Thr	Asp	Thr	Thr	Val	Gln	Gln	Val	Ala	Ala	Ala		
1				5					10					15			
Ala	Trp	Arg	Ile	Arg	Arg	Tyr	Ala	Leu	Arg	Met	Gly	Glu	Val	Gln	Gly		
			20					25					30				
Gln	Gly	Tyr	Ile	Gly	Gln	Ala	Leu	Gly	Tyr	Ala	Asp	Val	Leu	Ala	Thr		
		35					40					45					
Ala	Phe	Thr	His	Gly	Met	Asn	Leu	Lys	Pro	Gly	Glu	Pro	Glu	Trp	Glu		
	50					55					60						
Gly	Arg	Asp	Arg	Phe	Leu	Leu	Ser	His	Gly	His	Tyr	Ala	Ile	Ala	Cys		
65				70					75						80		
Tyr	Ala	Ala	Leu	Ile	Glu	Ala	Gly	Ile	Val	Pro	Glu	Glu	Glu	Leu	Glu		
			85						90					95			
Thr	Tyr	Gly	Ala	Asp	Asp	Ser	Arg	Leu	Pro	Met	Ser	Gly	Met	Ala	Thr		
			100					105					110				
Tyr	Thr	Pro	Gly	Met	Glu	Ile	Ser	Gly	Gly	Ser	Leu	Gly	Gln	Gly	Leu		
		115					120					125					
Ser	Ile	Gly	Val	Gly	Met	Ala	Leu	Gly	Leu	Lys	Arg	Lys	Gln	Ser	Ala		
	130					135					140						
Ala	Trp	Val	Val	Asn	Ser	Met	Ser	Asp	Gly	Glu	Leu	Asp	Glu	Gly	Ser		
145				150					155						160		
Thr	Trp	Glu	Ala	Ala	Met	Ser	Ala	Ala	His	His	Gly	Leu	Ser	Asn	Leu		
			165						170					175			
Ile	Val	Leu	Val	Asp	Ile	Asn	Arg	Gln	Gln	Ala	Asp	Gly	Asn	Ser	His		
		180						185					190				
Ala	Ile	Leu	Gly	Phe	Glu	Pro	Leu	Glu	Asp	Lys	Trp	Thr	Ser	Phe	Gly		
		195					200					205					
Trp	Tyr	Val	Gln	Arg	Val	Asn	Gly	Asn	Asp	Val	Pro	Ser	Leu	Val	Thr		
	210					215					220						
Ala	Phe	Asp	Asn	Ala	Lys	Arg	Tyr	Pro	Glu	Asn	Gln	Pro	Arg	Val	Ile		
225				230					235						240		
Leu	Cys	Asp	Thr	Leu	Met	Gly	Lys	Gly	Val	Pro	Phe	Leu	Glu	Lys	Arg		
			245						250					255			
Asp	Lys	Asn	His	Phe	Ile	Arg	Val	Asp	Ala	Asp	Glu	Trp	Gln	Lys	Ala		
		260						265					270				
Leu	Ala	Val	Leu	Asp	Ala	Asn	Lys	Pro	Glu	Gly	Val	Leu					
		275				280						285					

```
<210> 10155
<211> 395
<212> PRT
<213> Enterobacter cloacae
```

<400> 10155

Arg Met Ser Ala Asn Lys Leu Ala Ser Ser Ala Gln Gly Leu Gln Ser
 1 5 10 15
 Ser Ala Ile Arg Glu Leu Leu Lys His Ser Lys Met Ala Gly Val Ile
 20 25 30
 Ser Leu Gly Gly Gly Ile Pro Asn Pro Asp Leu Phe Asp His Glu Gly
 35 40 45
 Leu Lys Ile Ala Ala Asp Ala Val Leu Ser Gln His Phe Gly Glu Ala
 50 55 60
 Phe Gln Tyr Gly Leu Thr Glu Gly Val Pro Gly Leu Arg Glu Glu Ile
 65 70 75 80
 Gln Arg Ile Cys Glu Gly Arg Gly Ile Ala Cys Lys Ala Asp Asp Val
 85 90 95
 Val Ile Thr Ser Gly Ser Gln Gln Ser Leu Asp Val Leu Ala Arg Ala
 100 105 110
 Leu Ile Asn Pro Gly Asp Thr Val Val Val Glu Arg Pro Thr Tyr Leu
 115 120 125
 Ala Ala Leu Gln Val Phe Gly Leu Ala Gln Ala Lys Phe Glu Ser Val
 130 135 140
 Gly Thr Asp Gly Asp Gly Met Lys Val Asp Glu Leu Glu Ala Leu Val
 145 150 155 160
 Ala Thr Lys Thr Ile Lys Ala Val Tyr Ile Val Pro Thr Phe Gly Asn
 165 170 175
 Pro Gly Gly Val Thr Leu Ser Glu Ala Arg Lys Gln Leu Val Glu
 180 185 190
 Leu Ser Lys Arg Tyr Asp Phe Val Ile Ile Glu Asp Asp Pro Tyr Ser
 195 200 205
 Glu Ile Asn Tyr Thr Asp Glu Ala Phe Arg Pro Leu Ile Ala His Ala
 210 215 220
 Lys Asp Ile Gly Asn Glu Asp Asn Val Val Tyr Thr Ser Thr Phe Ser
 225 230 235 240
 Lys Ile Leu Ala Pro Gly Thr Arg Val Gly Trp Val Leu Val Pro Glu
 245 250 255
 Trp Leu Lys Arg Ala Val Val Asn Leu Lys Gln Thr Thr Asp Leu His
 260 265 270
 Thr Ser Thr Leu Ser Gln Leu Met Thr Tyr Glu Tyr Leu Lys Thr Gly
 275 280 285
 Arg Leu Ala Asn Gln Ile Lys Met Ile Arg Glu Ala Tyr Arg Gln Lys
 290 295 300
 Tyr Gln Thr Phe Ala Thr Glu Leu Glu Ala Glu Leu Gly Asp Val Met
 305 310 315 320
 Ser Phe His Lys Pro Lys Gly Gly Met Phe Leu Trp Ala Lys Met Asn
 325 330 335
 Asn Gly Ile Asn Thr Thr Lys Trp Leu Glu Lys Thr Leu Ser Asn Gly
 340 345 350
 Val Val Phe Val Pro Gly Glu Phe Phe Tyr Cys Asn Glu Pro Asp His
 355 360 365
 Thr Thr Leu Arg Met Ser Phe Val Thr Pro Thr Asp Glu Gln Leu Lys
 370 375 380
 Glu Ala Val Arg Arg Leu Arg Ile Ser Leu
 385 390 395

<210> 10156

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 10156

Ile Ser Glu Leu Thr Val Ala Asn Asp Val Thr Phe Pro Ala Thr Leu
 1 5 10 15
 Thr Ser Val Ser Pro Leu Ala Ala Trp Leu Glu Arg Gln Met Ala Ser

145

```
<210> 10157
<211> 400
<212> PRT
<213> Enterobacter cloacae
```

<div><div><400></div><div>10157</div></div>																
Phe	Pro	Leu	Thr	Tyr	Gly	Cys	Gly	Phe	Leu	Leu	Ser	Glu	Asn	Arg	Ala	
1				5					10					15		
Gly	Val	Tyr	Met	Ser	Ser	Thr	Glu	Ala	Thr	Asn	Lys	Ala	Pro	Ala	Val	
			20					25					30			
Pro	Glu	Lys	Ser	Ser	Val	Lys	Ser	Leu	Lys	Glu	Glu	Pro	Val	Leu	Gln	
		35					40					45				
Val	Glu	Arg	Arg	Asp	Phe	Val	Asp	Leu	Val	Pro	Glu	Lys	Arg	Pro	Arg	
	50					55					60					
Val	Gln	Ser	Leu	Arg	Gly	Phe	Asp	Asp	Cys	Tyr	Thr	Asp	Ile	Val	Asp	
65					70					75					80	
Tyr	Ile	Val	Arg	Cys	Thr	His	Lys	Ile	Trp	Asp	Glu	Arg	Asp	Val	Gly	
			85						90					95		
Leu	Ile	Tyr	Ser	His	Tyr	Thr	His	Asn	Cys	Val	Leu	Tyr	Asn	Ala	Leu	
			100					105					110			
Gly	Thr	Leu	Tyr	Asn	Arg	Glu	Gln	Val	Val	Gln	Asp	Thr	Leu	Gln	Arg	
		115					120					125				
Leu	Ile	Ala	Phe	Pro	Glu	Arg	Arg	Gly	Met	Ala	Thr	Gln	Val	Ile	Trp	
	130					135					140					
Asn	Gly	Asn	Asp	Val	Asp	Gly	Phe	Tyr	Thr	Ser	His	Leu	Val	Thr	Gly	
145					150					155					160	
Ser	Gly	Arg	His	Thr	Gln	His	Ser	His	Leu	Gly	Lys	Pro	Thr	Asn	Arg	
			165						170					175		
Thr	Phe	Val	Thr	Arg	Thr	Val	Ala	Asp	Cys	Met	Ile	His	Glu	Asn	Lys	
			180					185					190			
Ile	Tyr	Arg	Glu	Trp	Val	Val	Ser	Asp	Asn	Met	Ser	Leu	Met	Lys	Gln	
			195				200					205				
Leu	Gly	Leu	Asn	Thr	Asp	Gln	Ile	Ala	Phe	Asn	Met	Ala	Lys	Glu	Gln	
	210					215					220					
Phe	Asp	Lys	Gly	Phe	Arg	Val	Met	Asp	Ile	Gly	Glu	Asn	Gly	Arg	Met	
225					230					235					240	
Leu	Gly	Gln	Tyr	Pro	Pro	Glu	Met	Glu	Cys	Asp	Val	Ser	Ile	Ala	His	
			245						250					255		
Thr	Asp	Thr	Glu	Glu	Gln	Cys	Leu	Arg	Trp	Leu	His	Glu	Ile	Tyr	Asn	
			260					265					270			
Arg	Arg	Met	Phe	Gly	Lys	Ile	Lys	Glu	Val	Tyr	Ala	Pro	Asn	Val	Gln	
		275					280					285				
Trp	His	Gly	Pro	Leu	Met	Lys	Glu	Leu	Tyr	Gly	Thr	Ala	Ala	Val	Thr	

```

      290                      295                      300
His Gln Thr Leu Ala Leu Val Gly Met Ile Pro Asp Gly Ala Trp Leu
305                      310                      315
Pro Gln His Ile Cys Ser Asn Pro Cys Asp Glu Gly Val Lys Val
      325                      330                      335
Ala Val Arg Trp Ile Ile Glu Gly His His Leu Gly Tyr Gly Glu Leu
      340                      345                      350
Gly Lys Pro Thr Gly Glu Arg Leu Phe Val Met Gly Met Ser His Tyr
      355                      360                      365
His Ile Val Asn Gly Lys Ile Val Asp Glu Trp Val Val Tyr Asp His
      370                      375                      380
Leu Ala Leu Leu Ala Gln Ile Lys Leu Gly Gln Met Glu Asp Ala
385                      390                      395                      400

```

<210> 10158

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 10158

```

Met Leu Asn Gln Val Ser Trp Ile Lys Arg Pro Gln Gly Gln Asp Ala
1      5      10      15
Gln Ala Asp Arg Ser Leu Thr Glu Lys Val Ser Ala Ile Ile Glu Arg
20      25      30
Val Lys Thr Glu Gly Asp Thr Ala Leu Arg Ala Phe Ser Gln Gln Phe
35      40      45
Asp Lys Val Val Pro Ala Gln Phe Glu Val Ser Glu Gln Glu Ile Ala
50      55      60
Glu Ala Leu Glu Gly Met Asp Ala Gln Thr Arg Arg Asp Ser Glu Phe
65      70      75      80
Ala Ile Asn Gln Val Cys Arg Phe Ala Gln Ala Gln Leu Ala Thr Met
85      90      95
Gln Pro Leu Glu Val Glu Thr Leu Pro Gly Val His Leu Gly His Arg
100      105      110
Ile Ile Pro Val Gln Thr Val Gly Cys Tyr Val Pro Gly Gly Arg Tyr
115      120      125
Pro Ile Leu Ser Ala Pro Val Met Ser Ile Val Pro Ala Thr Val Ala
130      135      140
Gly Cys Glu Gln Ile Ile Ala Cys Leu Pro Pro Gly Ala His Pro Ala
145      150      155      160
Met Ile Ala Val Cys His Leu Ala Gly Ala His Arg Ile Phe Lys Val
165      170      175
Gly Gly Ala Gln Ala Ile Ala Ala Met Ala Trp Gly Thr Glu Ser Ile
180      185      190
Pro Ser Val Asp Lys Ile Val Gly Pro Gly Asn Ala Phe Val Asn Glu
195      200      205
Ala Lys Arg Gln Val Phe Gly Arg Val Gly Ile Asp Ala Leu Ala Gly
210      215      220
Pro Ser Glu Ile Phe Thr Ile Ala Asp Asp Ser Ala Asp Pro Arg Ile
225      230      235      240
Leu Ala Ala Asp Met Leu Ala Gln Ala Glu His Asp Ile His Thr Arg
245      250      255
Val Gly Leu Ala Thr Thr Ser Arg Asp Ile Ala Glu Arg Thr Leu Ala
260      265      270
Glu Val Glu Arg Gln Leu Ala Ser Leu Pro Thr Ala Ala Thr Ala Gly
275      280      285
Glu Ala Trp Arg Arg Gln Gly Glu Ile Val Leu Cys Glu Asp Glu Ala
290      295      300
Gln Leu Ile Ala Phe Ala Asp His Met Ala Thr Glu His Leu Gln Val
305      310      315      320
His Thr Arg Asp Pro His Ala Thr Ala Ala Lys Ile Arg Asn Tyr Gly

```

				325					330					335			
Ser	Leu	Phe	Ile	Gly	Gln	Asn	Ala	Ser	Val	Val	Phe	Ser	Asp	Lys	Cys		
			340					345					350				
Cys	Gly	Thr	Asn	His	Thr	Leu	Pro	Thr	Met	Ala	Ala	Ala	Arg	Tyr	Thr		
			355					360					365				
Gly	Gly	Leu	Trp	Val	Gly	Ala	Tyr	Val	Lys	Ile	Cys	Thr	His	Gln	Trp		
			370				375						380				
Ile	Asp	Glu	Gln	Gly	Ile	Pro	Ala	Ile	Ala	Glu	Pro	Ala	Ile	Arg	Gln		
					390					395					400		
Ser	Arg	Thr	Glu	Gly	Met	Gln	Gly	His	Arg	Arg	Ala	Ala	Glu	Ile	Arg		
				405					410					415			
Leu	Arg	Pro	Gln	Asp	Ile	Asp	Ala	Ile	Thr	Thr	Gly	Met	Arg	Asp			
			420					425					430				

<210> 10159

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 10159

Asn	Val	Ser	Arg	Ala	Ala	Phe	Cys	Pro	Val	Phe	Ile	Thr	Arg	Glu	Pro		
1				5					10					15			
Glu	Thr	Met	Lys	Arg	Leu	Ile	Pro	Pro	Asp	Asp	Cys	Pro	Glu	Glu	Ile		
			20					25					30				
Ala	His	Arg	Leu	Asp	Val	Ile	Gln	Gln	His	Arg	Ala	Leu	Asn	Ala	Ile		
			35				40					45					
Leu	Gly	Val	Asn	Pro	Asp	Ala	Met	Ser	Gln	Ala	Glu	Gln	His	Gln	Gln		
	50					55					60						
Gln	Arg	Arg	Arg	Gly	Glu	Pro	Ile	Gly	Pro	Leu	His	Gly	Val	Pro	Leu		
	65				70					75				80			
Ile	Val	Lys	Asp	Asn	Ile	Ala	Cys	Ala	Pro	Met	Pro	Ile	Thr	Leu	Gly		
				85					90					95			
Cys	Arg	Ala	Leu	Ala	Ser	Leu	Asn	Ala	Thr	Ala	Asp	Ala	Arg	Val	Val		
			100					105					110				
Gln	Arg	Leu	Arg	Ser	Ala	Gly	Ala	Ile	Ile	Leu	Ala	Arg	Ala	Asn	Met		
			115			120						125					
Ser	Glu	Phe	Ala	Phe	Asp	Val	Arg	Ser	Arg	Ser	Ser	Leu	Gly	Gly	Asp		
	130					135					140						
Val	Ala	Asn	Pro	Leu	Cys	Pro	Thr	Leu	Thr	Ala	Gly	Gly	Ser	Ser	Gly		
	145				150					155					160		
Gly	Cys	Ala	Ala	Ala	Val	Ala	Ala	Gly	Met	Ala	Asp	Gly	Ala	Leu	Gly		
				165					170					175			
Thr	Asp	Thr	Gly	Gly	Ser	Ile	Arg	Ile	Pro	Cys	Ser	Tyr	Thr	Gly	Leu		
			180					185					190				
Met	Gly	Leu	Arg	Pro	Ala	Phe	Arg	Arg	Ser	Gln	Leu	Asp	Gly	Val	Ala		
			195				200					205					
Pro	Leu	Ser	Pro	Ser	Lys	Asp	Thr	Val	Gly	Pro	Met	Val	His	Ser	Val		
	210					215						220					
Glu	Asp	Ala	Ala	Leu	Leu	His	Ala	Val	Ile	His	Gly	Leu	Pro	Pro	Val		
	225				230					235					240		
Ala	Leu	Pro	Val	Arg	Ser	Leu	Lys	Gly	Val	Arg	Phe	Gly	Val	Val	Thr		
				245					250					255			
Ala	Leu	Gln	Gly	Glu	Asp	Glu	Val	Gln	Leu	Glu	Val	Trp	Gln	Ser	Ala		
			260					265					270				
Leu	His	Thr	Leu	Arg	Arg	Ala	Gly	Ala	Thr	Leu	Val	Glu	Val	Ser	Leu		
			275				280					285					
Pro	Phe	Leu	Glu	Glu	Val	Arg	Gln	Ala	Thr	Cys	Leu	Ser	Leu	Tyr	Glu		
	290					295					300						
Phe	Arg	Val	Ala	Ile	Asp	Trp	Leu	Ser	Lys	Gln	Pro	Gly	Ala	Pro			
				310						315				320			
Ser	Gly	Leu	Thr	Ser	Ile	Val	Asp	Ser	Gly	Ala	Phe	Leu	Pro	Glu	Phe		

```
<210> 10160
<211> 159
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10161
<211> 127
<212> PRT
<213> Enterobacter cloacae
```

<400> 10161																
Asp	Pro	Ser	Gly	Arg	Leu	Ala	Lys	Gly	Ile	Ile	Pro	Trp	Asp	Val	Leu	
1				5					10					15		
Gly	Arg	Ser	Gly	Trp	Glu	Lys	Phe	Arg	Gly	Cys	Ser	Val	Lys	Lys	Asn	
			20					25					30			
Ala	Ala	Ser	Gln	Ala	Glu	Leu	Glu	Arg	Gln	Arg	Ala	Glu	Gln	Gln	Asp	
		35					40					45				
Lys	Ile	Asn	Ala	Leu	Leu	Glu	Leu	Met	Lys	Ala	Asp	Gly	Ile	Ser	Pro	
	50					55					60					
Ser	Asp	Leu	Leu	Gly	Ser	Asp	Leu	Ala	Gln	Ala	Gly	Gln	Pro	Thr	Lys	
65				70					75						80	

```
<210> 10162
<211> 544
<212> PRT
<213> Enterobacter cloacae
```

Lys 1	Gly	Ala	Val	Asp 5	Leu	Pro	Arg	Ser	Leu 10	Leu	Phe	Ile	Arg	His	Ala
Ser	Met	Lys	Asn 20	Met	Lys	Leu	Glu	Trp 25	Lys	Arg	Gly	Asp 30	Trp	Ala	Ala
Tyr	Phe	Gly 35	Leu	Met	Thr	Asn	Asn 40	Leu	Thr	Asn	Leu	Leu 45	Thr	Met	Met
Gly	Leu 50	Leu	Ile	Phe	Val	Val 55	Gly	Ile	Pro	Lys	Glu 60	Ile	Val	Tyr	Gly
Arg 65	Ile	Ala	Pro	Ala	Phe 70	Gly	Leu	Ala	Val	Leu 75	Val	Ala	Ser	Leu	Cys 80
Tyr	Thr	Trp	Phe	Gly 85	Leu	Gln	Met	Ala	Arg 90	Ala	Thr	Gly	Arg	Thr 95	Asp
Val	Thr	Ala	Leu 100	Pro	Ser	Gly	Pro	Ser 105	Ala	Pro	Ser	Ile	Phe 110	Thr	Val
Thr	Phe	Leu 115	Val	Leu	Met	Pro	Val 120	Tyr	Gln	Gln	Thr	Gly 125	Asp	Ala	Asp
Phe	Ala 130	Ile	Gln	Ile	Gly	Leu 135	Val	Trp	Cys	Phe	Val 140	Glu	Ala	Met	Ile
Leu 145	Ala	Gly	Gly	Ser	Phe 150	Leu	Gly	Glu	Thr	Ile 155	Arg	Lys	Met	Ile	Pro 160
Arg	Thr	Val	Leu	Leu 165	Ser	Cys	Leu	Ser	Gly 170	Leu	Gly	Leu	Leu	Leu 175	Leu
Ala	Met	Asn 180	Pro	Met	Leu	Gln	Ala	Phe 185	Glu	Ala	Pro	Thr 190	Val	Ser	Phe
Ile	Val 195	Leu	Leu	Ile	Phe	Ile 200	Asn	Trp	Phe	Gly	Lys 205	Lys	Pro	Ile	
Phe	Ala 210	Arg	Ile	Pro	Thr	Gly 215	Leu	Leu	Leu	Ile 220	Ala	Gly	Thr	Leu	
Leu 225	Ala	Trp	Ile	Ser	Gly 230	Gln	Ser	Pro	Asp 235	Ala	Ile	Lys	Ala	Ser	240
Met	Ser	Ser	Phe 245	Phe	Asn	Pro	Pro	Glu 250	Val	His	Val	Asp	Ser	Phe 255	
Met	Gln	Gly 260	Leu	Pro	His	Ala	Leu 265	Pro	Tyr	Leu	Ala	Ser 270	Ala	Val	Pro
Leu	Gly 275	Leu	Ala	Asn	Tyr	Ile	Phe 280	Asp	Leu	Glu	Asn	Ile 285	Glu	Ser	Ala
His 290	Ala	Ala	Gly	Asp	Glu	Tyr 295	Pro	Thr	Arg	Lys	Val 300	Met	Leu	Ala	Asn
Gly 305	Leu	Ala	Ser	Met	Leu 310	Gly	Cys	Leu	Met	Gly 315	Asn	Pro	Phe	Pro	Val 320
Thr	Val	Tyr	Val 325	Gly	His	Pro	Gly	Trp	Lys 330	Ala	Met	Gly	Ala	Ser 335	Ile
Gly	Tyr	Thr 340	Leu	Ala	Ser	Gly	Val 345	Thr	Met	Phe	Ile	Val 350	Pro	Leu	Phe
Gly	Leu 355	Gly	Ala	Phe	Met	Leu 360	Ala	Ile	Pro	Met	Thr 365	Ala	Ile	Val	
Pro	Ile 370	Leu	Val	Phe	Ile	Gly 375	Val	Val	Thr	Ala	Asn 380	Gln	Val	Val	Arg

<210> 10163																
<211> 486																
<212> PRT																
<213> Enterobacter cloacae																
<400> 10163																
Ser	Ser	Pro	Arg	Arg	Thr	Ala	Cys	Pro	Gln	Arg	Cys	Ala	Val	Lys	Arg	
1				5					10					15		
Val	Pro	Ile	Leu	Leu	Met	Lys	Glu	Asp	Lys	Met	Ser	Glu	Asn	Lys	Ser	
			20					25					30			
Arg	Arg	Glu	Phe	Ile	Ser	Gln	Ser	Gly	Lys	Met	Val	Thr	Ala	Cys	Ala	
		35					40					45				
Leu	Phe	Gly	Ala	Thr	Gly	Ser	Val	Ala	Tyr	Ala	Ala	Asp	Ser	Val	Lys	
	50					55					60					
Ala	Thr	Cys	Glu	Thr	Gly	Lys	Pro	Met	Asn	Ile	Thr	Ala	Lys	His	Tyr	
65					70					75					80	
Tyr	Leu	Asp	Asn	Val	Leu	Leu	Glu	Ala	Gly	Phe	Asn	Tyr	Asp	Gly	Ser	
			85						90					95		
Val	Ala	Thr	Ser	Thr	Arg	Thr	Glu	Leu	Lys	Thr	Leu	Glu	Ile	Lys	Asp	
			100					105					110			
Gly	Lys	Ile	Val	Ala	Leu	Arg	Asp	Asn	Gly	Ser	His	Ala	Asp	Ala	Thr	
		115					120					125				
Leu	Pro	His	Tyr	Asp	Ala	Gly	Lys	Lys	Leu	Met	Leu	Pro	Ala	Met	Arg	
	130					135					140					
Asp	Met	His	Ile	His	Leu	Asp	Lys	Thr	Phe	Tyr	Gly	Gly	Pro	Trp	Arg	
145					150					155					160	
Ser	Leu	Asn	Arg	Pro	Ala	Gly	Thr	Thr	Ile	Gln	Asp	Met	Ile	Arg	Leu	
			165						170					175		
Glu	Gln	Lys	Leu	Leu	Pro	Glu	Leu	Gln	Pro	Tyr	Thr	Gln	Glu	Arg	Ala	
		180						185					190			
Glu	Lys	Leu	Ile	Asp	Leu	Ile	Gln	Ser	Lys	Gly	Ser	Thr	Ile	Ala	Arg	
		195					200					205				
Ser	His	Cys	Asn	Ile	Glu	Pro	Val	Ser	Gly	Leu	Lys	Asn	Leu	Glu	Asn	
	210					215					220					
Leu	Gln	Ala	Val	Leu	Ala	Arg	Arg	Gly	Ala	Gly	Phe	Asp	Cys	Glu	Ile	
225					230					235					240	
Val	Ala	Phe	Pro	Gln	His	Gly	Leu	Leu	Leu	Ser	Asn	Ser	Glu	Lys	Leu	
			245						250					255		
Met	Arg	Glu	Ala	Met	Gln	Ala	Gly	Ala	His	Tyr	Val	Gly	Gly	Leu	Asp	
		260						265					270			

Pro Thr Ser Val Asp Gly Ala Met Glu Lys Ser Leu Asp Thr Met Phe
 275 280 285
 Gln Ile Ala Leu Asp Tyr Asp Lys Gly Val Asp Ile His Leu His Glu
 290 295 300
 Thr Ser Pro Ala Gly Val Ala Ala Val Asn Tyr Met Val Glu Thr Val
 305 310 315
 Glu Lys Thr Pro Ala Leu Lys Gly Lys Leu Thr Ile Ser His Ala Phe
 325 330 335
 Ala Leu Ala Thr Leu Asn Glu Gln Gln Val Asp Glu Ile Ala Thr Arg
 340 345 350
 Met Ala Ala Gln Gln Val Thr Ile Ala Ser Thr Val Pro Ile Gly Thr
 355 360 365
 Leu His Met Pro Leu Lys Gln Leu Arg Asp Lys Gly Val Phe Val Met
 370 375 380
 Thr Gly Thr Asp Ser Val Ile Asp His Trp Ser Pro Tyr Gly Leu Gly
 385 390 395
 Asp Met Leu Glu Lys Ala Asn Leu Tyr Ala Gln Leu Tyr Ile Arg Pro
 405 410 415
 Asn Glu Gln Thr Leu Ser Arg Ala Leu Gly Ile Ala Thr Gly Asp Val
 420 425 430
 Leu Pro Leu Asn Asp Lys Gly Glu Arg Val Trp Pro Lys Ala Gln Asp
 435 440 445
 Asp Ala Ser Phe Val Leu Val Asp Ala Ser Cys Ser Ala Glu Ala Val
 450 455 460
 Ala Arg Ile Ser Pro Arg Thr Ala Thr Phe His Lys Gly Asn Leu Val
 465 470 475 480
 Trp Gly Thr Val Ala
 485

<210> 10164

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 10164

Pro Leu Arg Asp Leu Asn His Ser His Gly Gly Glu Asn Pro Ala Gln
 1 5 10 15
 Ala Val Ile Tyr Lys Thr Asp Thr Leu Ser Thr Gly Glu Gly Cys Phe
 20 25 30
 Thr Leu Ala Thr Val Ala Ile Lys Glu Ser Val Met Ala Gln Asn Ile
 35 40 45
 Tyr Asp Asn Pro Ala Phe Phe Glu Gly Tyr Ala Gln Leu Pro Arg Ser
 50 55 60
 Val Gln Gly Leu Asn Gly Ala Pro Glu Trp Pro Ala Leu Lys Ala Met
 65 70 75 80
 Leu Pro Asp Leu Thr Gly Lys Ala Val Val Asp Leu Gly Cys Gly Tyr
 85 90 95
 Gly Trp Phe Cys Arg Ala Ala Arg Glu Leu Gly Ala Ser Asp Val Thr
 100 105 110
 Gly Val Asp Ile Ser Glu Lys Met Leu Ala Arg Ala Ala Glu Leu Thr
 115 120 125
 Asp Asp Asn Arg Ile His Tyr Gln Arg Ser Asp Leu Glu Ser Leu Ala
 130 135 140
 Leu Lys Ala Asn Ser Leu Asp Leu Val Tyr Ser Ser Leu Ala Leu His
 145 150 155 160
 Tyr Leu Pro Glu Leu Asp Thr Leu Phe Ala Asn Val Gln Arg Ala Leu
 165 170 175
 Lys Pro Gly Gly Ser Leu Val Phe Ser Met Glu His Pro Ile Tyr Thr
 180 185 190
 Cys Ala Thr Arg Gln Gly Trp Leu Thr Asp Asp Ser Gly Glu Arg Phe
 195 200 205

```
<210> 10165
<211> 301
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10166
<211> 248
<212> PRT
<213> Enterobacter cloacae
```


<400> 10166

Thr Gln Leu Lys Glu Gln Asn Met Asn Lys Val Ile Leu Ile Thr Gly
 1 5 10 15
 Ala Ser Ser Gly Ile Gly Glu Gly Ile Ala Arg Glu Leu Gly Lys Ala
 20 25 30
 Gly Ala Lys Val Phe Leu Gly Ala Arg Arg Leu Glu Arg Ile His Ala
 35 40 45
 Leu Ala Asp Glu Ile Arg Ser Ala Gly Gly Glu Ala Glu Ala Gln Val
 50 55 60
 Leu Asp Val Thr Ser Arg Gln Ser Met Ala Ala Phe Val Glu Ala Ala
 65 70 75 80
 Arg Glu Lys Trp Gly Arg Ile Asp Val Leu Ile Asn Asn Ala Gly Ile
 85 90 95
 Met Pro Leu Ser Pro Leu Ser Ala Gly Lys Gln Asp Glu Trp Glu Arg
 100 105 110
 Thr Ile Asp Val Asn Ile Lys Gly Val Leu Trp Gly Ile Gly Ala Val
 115 120 125
 Leu Pro Ile Met Glu Ala Gln Asn Ser Gly Gln Ile Ile Asn Ile Gly
 130 135 140
 Ser Ile Gly Ala Leu Ser Val Val Pro Thr Ala Ala Val Tyr Cys Ala
 145 150 155 160
 Thr Lys Phe Ala Val Arg Ala Ile Ser Asp Gly Leu Arg Gln Glu Ser
 165 170 175
 Ser Asn Ile Arg Val Thr Cys Val Asn Pro Gly Val Val Glu Ser Glu
 180 185 190
 Leu Ala Ser Thr Ile Thr His Glu Glu Thr Met Ala Val Met Asp Ala
 195 200 205
 Tyr Arg Ala Ile Ala Leu Lys Pro Ala Asp Ile Ala Arg Ala Val Arg
 210 215 220
 His Ile Ile Glu Ala Pro Glu Ser Val Asp Thr Thr Glu Ile Thr Ile
 225 230 235 240
 Arg Pro Thr Ala Ser Ala Asn
 245

<210> 10167

<211> 423

<212> PRT

<213> Enterobacter cloacae

<400> 10167

Ile Pro Gly Arg His Arg Gln Arg His Leu Val Leu Thr Ala Leu Gly
 1 5 10 15
 Gly Arg Met Leu Ser Gln His Val Leu Ile Val Glu Asp Ser Leu Val
 20 25 30
 Tyr Arg Arg Leu Leu Ser Arg Met Leu Thr Gln Trp Gly Tyr Thr Val
 35 40 45
 Tyr Glu Ala Glu Asn Gly Val Ala Ala Leu Glu Ile Leu Glu Asn Gln
 50 55 60
 Pro Val Ser Leu Val Ile Ser Asp Trp Asp Met Pro Glu Met Asp Gly
 65 70 75 80
 Leu Thr Leu Cys Arg Glu Val Arg Ser Arg Gln Phe Gly His Tyr Val
 85 90 95
 Tyr Leu Ile Leu Leu Thr Ala Arg Glu Glu Pro Gly Asp Leu Thr Val
 100 105 110
 Gly Phe Asp Ala Gly Ala Asp Asp Phe Leu Asn Lys Pro Val Glu Gln
 115 120 125
 Ser Glu Leu Arg Ala Arg Leu His Ala Gly Ala Arg Val Leu Ser Leu
 130 135 140
 Glu Ala Thr Leu Ala Thr Arg Asn Ala Arg Leu Ser Glu Ala Leu Arg
 145 150 155 160
 Gln Ile Glu Gln Asp Leu Glu Val Ala Ala Arg Ile Gln Gln Ser Val

```

      165      170      175
Leu Pro Ala His Gln Leu Arg Tyr Arg Asp Tyr Phe Ala Asp Trp Ile
      180      185      190
Phe Leu Pro Ser Ala Trp Val Ser Gly Asp Ile Phe Asn Val Phe Pro
      195      200      205
Leu Asp Asn His Leu Gly Phe Tyr Cys Val Asp Val Ser Gly His Gly
      210      215      220
Val Gly Ala Ala Met Met Ser Leu Ala Val Ala Arg Gln Phe Leu His
      225      230      235      240
Gly Arg Ala Val Glu Arg Phe Leu Phe Ala Asp Asp Ser Asp Val Ala
      245      250      255
Ser Pro Ala Glu Val Val Arg Ile Leu Asn Gly Arg Phe Cys Ser Glu
      260      265      270
Glu Val Glu Ile Met Ser Tyr Phe Thr Met Ile Tyr Gly Val Ile Asp
      275      280      285
Leu Thr Thr Gly Glu Gly Lys Leu Cys Gln Ala Gly His Pro Thr Pro
      290      295      300
Phe Ile Val Asn Pro Gly Gly Glu Val Arg Thr Val Gly Glu Gly Gly
      305      310      315      320
Ala Pro Val Gly Leu Met Pro Asp Leu Ser Trp Ser Asp Val Ser Phe
      325      330      335
Ser Leu Ala Pro Gly Glu Arg Leu Cys Leu Phe Ser Asp Gly Ile Thr
      340      345      350
Glu Cys Glu Asn Pro Asp Asn Glu Gln Phe Gly Gln Ala Arg Leu Gln
      355      360      365
Arg Arg Leu Gln Asp Asp Ala Thr Leu Ala Leu Glu Arg Leu Leu Pro
      370      375      380
Gln Phe Ala Gln His Leu Ile Arg Trp Arg Ser Gly Lys Tyr Arg Glu
      385      390      395      400
Gln Gln Ala Met Ala Asp Asp Val Ser Leu Leu Val Ile Glu Arg Thr
      405      410      415
Gly Val Asn Asp Glu His
      420

```

<210> 10168

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 10168

```

Ser Arg Ser Cys Cys Glu Asn Phe Asn Phe Leu Cys Cys Ile Arg Met
1      5      10      15
Gln Arg Trp Cys Lys Tyr Lys Lys His Pro Leu Ala Glu Ala Phe Glu
      20      25      30
Ala Arg Ala Asn Gly Gln Asp Val Asp Lys Glu Ser Gly Val Met Lys
      35      40      45
Arg Lys Thr Phe Ala Ala Val Thr Ser Gln Gln Val Ala Gln Leu Ala
      50      55      60
Gly Val Ser Gln Ser Ala Val Ser Arg Thr Phe Thr Pro Gly Ala Ser
      65      70      75      80
Ile Ser Pro Ala Thr Arg Glu Lys Val Leu Lys Ala Ala Arg Glu Leu
      85      90      95
Gly Tyr Arg Pro Asn Ala Ile Ala Arg Ser Leu Asn Thr Ala Arg Ser
      100      105      110
Arg Ile Ile Gly Val Val Ile Ser Tyr Phe Asp Asn Pro Phe Tyr Ser
      115      120      125
Gln Val Leu Glu Ala Leu Ala Gln Lys Leu Asp Thr Leu Asn Tyr His
      130      135      140
Leu Leu Leu Phe Val Gly Asp Arg Glu Gly Asn Val Asp Arg Ile Phe
      145      150      155      160
Asp Gln Ile Met Gln Tyr Arg Val Asp Gly Ile Val Leu Ala Ser Val

```

```
<210> 10169
<211> 328
<212> PRT
<213> Enterobacter cloacae
```

Thr 1	Val 2	Arg 3	Cys 4	Ser 5	Gly 6	Arg 7	Asp 8	Pro 9	Pro 10	Ser 11	Ser 12	Glu 13	Arg 14	Val 15	Glu 16
Ala 17	Gly 18	Tyr 19	Gly 20	Arg 21	Thr 22	Gly 23	His 24	Ile 25	Lys 26	Lys 27	Ser 28	Arg 29	Gly 30	Val 31	Leu 32
Arg 33	Lys 34	Ala 35	Val 36	Arg 37	Leu 38	Arg 39	Tyr 40	Ala 41	Phe 42	Ile 43	Arg 44	Asp 45	Asn 46	Ser 47	Arg 48
Cys 49	Trp 50	Pro 51	Val 52	Arg 53	Leu 54	Leu 55	Cys 56	Arg 57	Val 58	Leu 59	Asp 60	Val 61	His 62	Pro 63	Ser 64
Gly 65	Phe 66	Tyr 67	Phe 68	Trp 69	Leu 70	Gln 71	Gln 72	Pro 73	His 74	Ser 75	Gln 76	Arg 77	His 78	Gln 79	Thr 80
Asp 81	Gln 82	Met 83	Leu 84	Thr 85	Gly 86	Gln 87	Ile 88	Lys 89	Gln 90	Phe 91	Trp 92	Leu 93	Glu 94	Ser 95	Gly 96
Cys 97	Val 98	Tyr 99	Gly 100	Tyr 101	Arg 102	Lys 103	Ile 104	His 105	Leu 106	Asp 107	Leu 108	Arg 109	Asp 110	Thr 111	Gly 112
Gln 113	Gln 114	Cys 115	Gly 116	Val 117	Asn 118	Arg 119	Val 120	Trp 121	Arg 122	Leu 123	Met 124	Lys 125	Arg 126	Ala 127	Gly 128
Ile 129	Lys 130	Ala 131	Gln 132	Val 133	Gly 134	Tyr 135	Arg 136	Ser 137	Pro 138	Arg 139	Ala 140	Arg 141	Lys 142	Gly 143	Glu 144
Ala 145	Ser 146	Ile 147	Val 148	Thr 149	Pro 150	Asn 151	Arg 152	Leu 153	Gln 154	Arg 155	Gln 156	Phe 157	Asn 158	Pro 159	Asp 160
Ser 161	Pro 162	Asp 163	Glu 164	Arg 165	Trp 166	Val 167	Thr 168	Asp 169	Ile 170	Thr 171	Tyr 172	Ile 173	Arg 174	Thr 175	His 176
Glu 177	Gly 178	Trp 179	Leu 180	Tyr 181	Leu 182	Ala 183	Val 184	Val 185	Val 186	Asp 187	Leu 188	Phe 189	Ser 190	Arg 191	Lys 192

```
<210> 10170
<211> 124
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10171
<211> 809
<212> PRT
<213> Enterobacter cloacae
```

<400>	10171															.
Arg	His	Asn	Asn	Pro	Arg	Ser	Ser	Gly	Trp	Leu	Gly	Pro	Trp	Cys	Leu	
1				5					10					15		
Leu	Val	Gly	Val	Ile	Leu	Leu	Val	Thr	Gly	Leu	Phe	Phe	Ala	Ile	Gly	
			20					25					30			
Gly	Phe	Lys	Leu	Val	Ser	Val	Gly	Gly	Ser	Trp	Tyr	Phe	Leu	Ile	Ala	
		35					40					45				
Gly	Val	Ile	Thr	Leu	Leu	Ser	Ala	Ile	Gln	Phe	Phe	Arg	Arg	Lys	Ser	
		50				55				60						
Ser	Ala	Val	Gly	Leu	Phe	Ala	Leu	Val	Phe	Leu	Gly	Thr	Leu	Ile	Trp	
65					70					75					80	
Ala	Phe	Phe	Asp	Ala	Gly	Leu	Asp	Phe	Trp	Pro	Leu	Val	Ser	Arg	Leu	
				85					90					95		

Met	Val	Pro	Ala	Gly	Leu	Met	Val	Leu	Ala	Ala	Ala	Thr	Trp	Pro	Ala
Leu	Arg	Lys	100	Glu	Gly	Lys	Pro	105	Cys	Ala	Lys	Gly	110	Leu	Gly
Val	Cys	Ala	115	Val	Ile	Ile	Ala	120	Met	Gly	Val	125	Val	Gln	Met
Phe	Gln	Pro	His	Pro	Thr	Val	Pro	Phe	Ser	Gly	Glu	Lys	Arg	Pro	Leu
Val	Pro	Val	Lys	Asp	Asp	Ala	Lys	Gln	Gln	Asn	Trp	Asp	His	Tyr	Gly
Asn	Thr	Ala	Gly	Gly	Ser	Arg	Phe	Val	Ala	Leu	Asp	Gln	Ile	Thr	Arg
Asp	Asn	Val	Lys	Asn	Leu	Lys	Pro	Val	Trp	Thr	Tyr	His	Thr	Gly	Asp
Val	Pro	Glu	Ser	Pro	Asp	Gly	Asn	Gly	Ala	Glu	Asp	Gln	Gln	Thr	Pro
Leu	Gln	Val	Gly	Asp	Arg	Val	Phe	Leu	Cys	Thr	Pro	His	Asn	Asn	Val
Ile	Ala	Val	Asp	Ala	Asp	Ser	Gly	Lys	Glu	Ile	Trp	Lys	Ala	Glu	Ile
Asn	Ala	Lys	Ser	Ala	Ile	Trp	Met	Arg	Cys	Arg	Gly	Leu	Ala	Tyr	Phe
Asp	Ala	Thr	Lys	Pro	Leu	Ala	Gln	Pro	Thr	Val	Ala	Gly	Ser	Thr	Pro
Val	Leu	Pro	Ala	Gln	Val	Ala	Pro	Gly	Ala	Ala	Cys	Gln	Arg	Arg	Ile
Leu	Met	Asn	Thr	Ile	Asp	Gly	Lys	Leu	Ile	Ala	Leu	Asp	Ala	Asp	Asn
Gly	Lys	Phe	Cys	Pro	Asp	Phe	Gly	Thr	Asn	Gly	Ser	Val	Asn	Leu	His
Glu	Gly	Met	Gly	Asp	Ala	Ser	Asp	Pro	Thr	Tyr	Val	Leu	Thr	Ser	Ala
Pro	Thr	Leu	Ala	Gly	Thr	Thr	Val	Val	Val	Gly	Gly	Arg	Val	Ala	Asp
Asn	Val	Ser	Thr	Asp	Met	Pro	Gly	Gly	Val	Ile	Arg	Gly	Tyr	Asp	Val
Ile	Thr	Gly	Gln	Leu	Arg	Trp	Ala	Phe	Asp	Pro	Arg	Asn	Pro	Asp	Pro
Asn	Tyr	Val	Leu	Lys	Pro	Gly	Glu	His	Tyr	Lys	Arg	Ser	Ser	Ala	Asn
Ser	Trp	Ala	Pro	Met	Ser	Trp	Asp	Ala	Ser	Met	Asn	Thr	Val	Phe	Ile
Pro	Met	Gly	Ser	Ser	Ser	Val	Asp	Leu	Trp	Gly	Ala	Asp	Arg	Ile	Pro
Glu	Asp	His	Lys	Tyr	Ala	Thr	Ser	Ile	Leu	Ala	Leu	Asp	Ala	Thr	Thr
Gly	Lys	Glu	Lys	Trp	Val	Tyr	Gln	Thr	Val	His	Asn	Asp	Leu	Trp	Asp
Phe	Asp	Ile	Pro	Met	Gln	Pro	Ser	Leu	Val	Asp	Phe	Pro	Thr	Lys	Glu
Gly	Asn	Lys	Pro	Ala	Val	Val	Val	Gly	Thr	Lys	Ala	Gly	Gln	Ile	Tyr
Val	Leu	Asp	Arg	Leu	Thr	Gly	Lys	Pro	Leu	Thr	Glu	Val	Lys	Glu	Val
Pro	Val	Lys	Pro	Ala	Asp	Ile	Pro	Arg	Glu	Gln	Tyr	Pro	Ala	Thr	Gln
Pro	Arg	Ser	Val	Gly	Met	Pro	Gln	Ile	Gly	Ala	Glu	Thr	Leu	Lys	Glu
Ser	Asp	Met	Trp	Gly	Ala	Thr	Pro	Phe	Asp	Gln	Leu	Ala	Cys	Arg	Ile
Ser	Phe	Lys	Ser	Met	Arg	Tyr	Asp	Gly	Leu	Tyr	Thr	Met	Pro	Gly	Thr

```

      580                      585                      590
Asp Ile Ser Leu Ser Phe Pro Gly Ser Leu Gly Gly Met Asn Trp Gly
      595                      600                      605
Ser Leu Ser Thr Asp Pro Asn Asn Gln Tyr Ile Phe Val Asn Asp Met
      610                      615                      620
Arg Leu Gly Leu Trp Val Gln Leu Ile Lys Gln Asp Pro Gln Ser Ala
      625                      630                      635                      640
Val Ala Asn Thr Gly Gly Glu Ala Val Asn Ala Gly Met Gly Ala Val
      645                      650                      655
Pro Met Lys Gly Thr Pro Tyr Ser Val Asn Lys Asn Arg Phe Met Ser
      660                      665                      670
Pro Leu Gly Ile Pro Cys Gln Lys Pro Pro Phe Gly Ser Leu Ser Ala
      675                      680                      685
Ile Asp Leu Lys Thr Gln Lys Ile Val Trp Gln Val Pro Val Gly Thr
      690                      695                      700
Val Gln Asp Thr Gly Pro Phe Gly Val Lys Met Arg Met Gln Met Pro
      705                      710                      715                      720
Val Gly Met Pro Thr Leu Gly Gly Thr Leu Ala Thr Gln Gly Gly Leu
      725                      730                      735
Val Phe Ile Ala Gly Thr Gln Asp Tyr Tyr Leu Arg Ala Phe Asp Ser
      740                      745                      750
Ser Thr Gly Glu Glu Val Trp Lys Ala Arg Leu Pro Val Gly Ser Gln
      755                      760                      765
Gly Gly Pro Ile Ser Tyr Val Ser Pro Lys Thr Gly Lys Gln Tyr Ile
      770                      775                      780
Leu Ile Ser Ala Gly Gly Ala Arg Gln Ser Pro Asp Arg Gly Asp Tyr
      785                      790                      795                      800
Val Ile Ala Tyr Ala Leu Asp Lys
      805

```

<210> 10172

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 10172

```

Leu Asn Arg Val His Ala Asn Arg Gln Asn Ser Arg Arg Ser Arg Pro
1      5      10      15
Met Gln Gln Phe Glu Trp Ile His Ala Ala Trp Leu Ala Phe Ala Ile
      20      25      30
Val Leu Glu Ile Ile Ala Asn Val Phe Leu Lys Phe Ser Asp Gly Phe
      35      40      45
Arg Arg Lys Ala Tyr Gly Leu Ser Ile Ala Ala Val Leu Gly Ala
      50      55      60
Phe Ser Ala Leu Ser Gln Ala Val Lys Gly Ile Asp Leu Ser Val Ala
      65      70      75      80
Tyr Ala Leu Trp Gly Gly Phe Gly Ile Ala Ala Thr Leu Ala Ala Gly
      85      90      95
Trp Ile Met Phe Gly Gln Arg Leu Asn Asn Lys Gly Trp Ile Gly Leu
      100      105      110
Val Leu Leu Leu Ala Gly Met Ile Met Ile Lys Leu Ala
      115      120      125

```

<210> 10173

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 10173

```

Tyr Phe Lys Asn Met Asn Ile Glu Leu Arg His Leu Arg Tyr Phe Val
1      5      10      15

```

Ala Val Ala Glu Glu Leu His Phe Gly Arg Ala Ala Ala Arg Leu Asn
 20 25 30
 Ile Ser Gln Pro Pro Leu Ser Gln Ile Gln Ile Leu Glu Gln Gln
 35 40 45
 Val Gly Ala Arg Leu Leu Ala Arg Thr Asn Arg Ser Val Ser Leu Thr
 50 55 60
 Ala Ala Gly Lys Gln Phe Leu Ala Asp Ser Arg Gln Ile Leu Ser Met
 65 70 75 80
 Val Glu Asp Ala Ala Ala Arg Ala Glu Arg Leu Tyr Leu Gly Glu Thr
 85 90 95
 Gly Glu Leu Arg Ile Gly Phe Thr Ser Ser Ala Pro Phe Ile Ser Ala
 100 105 110
 Val Ser Gln Thr Leu Ser Ser Phe Arg Arg Asn Phe Pro Asp Val His
 115 120 125
 Ile Gln Thr Arg Glu Ile Asn Thr Arg Glu Gln Ile Ser Pro Leu Asn
 130 135 140
 Glu Gly Ser Leu Asp Leu Gly Leu Met Arg Asn Thr Gln Leu Pro Asp
 145 150 155 160
 Thr Leu Ala Trp Gln Val Ile Leu Arg Glu Pro Leu Met Ala Met Ile
 165 170 175
 Pro Arg Asp His Pro Leu Ala Ala Gln His Ser Val Thr Leu Ala Glu
 180 185 190
 Leu Ala Lys Glu Pro Phe Val Phe Asp Pro Gln Val Gly Thr Gly
 195 200 205
 Leu Tyr Asp Asp Ile Leu Gly Leu Met Arg Arg Tyr Gly Leu Val Pro
 210 215 220
 Thr Ile Ala Gln Glu Val Gly Glu Ala Met Thr Ile Ile Gly Leu Val
 225 230 235 240
 Ala Ala Gly Leu Gly Val Ser Ile Leu Pro Ala Ser Phe Lys Arg Val
 245 250 255
 Gln Leu Ala Glu Met Arg Trp Val Lys Ile Ala Glu Gln Asp Ala Val
 260 265 270
 Ser Glu Met Trp Leu Val Trp Ser Lys His His Glu Gln Ser His Ala
 275 280 285
 Ala Gln Arg Phe Lys Glu Gln Leu Ile Thr Ala Ser Arg Gly His Tyr
 290 295 300
 Leu
 305

<210> 10174

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 10174

Gly Ser Glu Met Thr Lys Ile Thr Pro Glu Tyr Thr Val Val Asp Leu
 1 5 10 15
 Ser Arg Trp Ala Arg Lys Glu His Phe Glu Val Phe Gln Gly Phe Ala
 20 25 30
 Gln Ser Thr Phe Asn Gln Thr Val Gln Leu Asp Ile Thr Val Leu Leu
 35 40 45
 Lys His Ile Lys Glu Val Gly Trp Lys Phe Tyr Pro Ala Ile Ile Ser
 50 55 60
 Leu Ile Ser His Val Val Asn Arg His Pro Glu Phe Arg Met Ala Met
 65 70 75 80
 Lys Asp Asp Glu Leu Val Ile Trp Asn Glu Val His Pro Ser Tyr Thr
 85 90 95
 Leu Phe His Lys Glu Thr Glu Thr Phe Ser Ser Leu Trp Ser His Tyr
 100 105 110
 Asp Gly Asn Ile His His Phe Gln Arg Val Tyr Ala Glu Asp Val Ala
 115 120 125

Arg Tyr Gly Asn Ile Leu Ala Tyr Trp Pro Lys Glu Glu Ser Arg Glu
 130 135 140
 Asn Ile Phe Phe Ile Ser Asp Ile Pro Trp Val Ser Phe Ser Ser Phe
 145 150 155 160
 Asn Val Asn Val Ala Asn Met Arg Asn Phe Phe Ala Pro Met Phe Thr
 165 170 175
 Phe Gly Lys Tyr Tyr Asn Gln Asp Glu Lys Val Leu Leu Pro Phe Ala
 180 185 190
 Val Gln Val His His Ser Val Cys Asp Gly Phe His Val Ala Arg Met
 195 200 205
 Ile Asn Glu Leu Gln Glu Leu Cys Asp Asn Leu Pro His His Ser Glu
 210 215 220
 Ala Pro Asn Val
 225

<210> 10175

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 10175

Thr Val Asn Asp Val Asn Lys Tyr Ala Ala Ile Thr Leu Leu Ala Thr
 1 5 10 15
 Val Leu Val Gly Cys Asp Asn Asn Thr Ala Pro Leu Ser Phe Thr Pro
 20 25 30
 Glu Met Ala Ser Phe Ser Asn Glu Phe Asp Phe Asp Pro Leu Arg Gly
 35 40 45
 Pro Val Lys Asp Phe Thr Gln Thr Leu Phe Asn Asp Lys Gly Glu Val
 50 55 60
 Ser Lys Arg Val Thr Gly Thr Met Ser Thr Glu Gly Cys Phe Asp Thr
 65 70 75 80
 Leu Glu Leu His Asp Leu Glu Ala Asn Thr Gly Val Ala Leu Val Leu
 85 90 95
 Asp Ala Asn Tyr Tyr Val Asp Ala Glu Thr Gln Gln Gln Lys Val Lys
 100 105 110
 Leu Gln Gly Lys Cys Gln Leu Ala Glu Leu Pro Ser Ala Gly Leu Thr
 115 120 125
 Trp Asp Thr Asp Asp Asn Gly Phe Val Val Ala Ala His Ser Lys Glu
 130 135 140
 Met Glu Val Lys Tyr Gln Tyr Asp Ala Asp Gly Tyr Pro Leu Gly Lys
 145 150 155 160
 Thr Thr Val Ser Gly Asp Gln Arg Leu Ser Val Lys Ser Val Pro Ser
 165 170 175
 Lys Asp Leu Arg Lys Arg Met Asp Tyr Thr Ala Val Ser Leu Leu Asn
 180 185 190
 Asp Lys Pro Met Gly Asn Val Lys Gln Ser Cys Asp Tyr Asp Arg His
 195 200 205
 Asn Asn Pro Val Asn Cys Glu Leu Leu Ile Thr Asp Asp Ser Val Lys
 210 215 220
 Pro Ala Val Glu Arg Lys Tyr Thr Ile Lys Asn Ser Ile Glu Tyr Tyr
 225 230 235 240

<210> 10176

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 10176

Glu Ala Gly Ser Glu Ile Pro Val Arg Ser Gly Leu Ser Ala Gly Gly


```

1           5           10           15
Pro Ser Gly Arg Arg His Ser Leu Glu Leu Val Asn Glu Glu Arg Met
20
Met Lys Ser Val Val Ile Gln Gln Pro Asn Ala Leu Glu Ile Glu Glu
35
Arg Pro Leu Pro Leu Pro Gly Ala Gly Asp Val Arg Val Lys Ile Lys
50
Leu Ala Gly Ile Cys Gly Ser Asp Ser His Ile Tyr Arg Gly His Asn
65
Pro Phe Ala Lys Tyr Pro Arg Val Ile Gly His Glu Phe Phe Gly Glu
85
Ile Asp Ala Val Gly Glu Gly Val Glu Gly Thr Arg Leu Gly Gln Arg
100
Val Ser Val Asp Pro Val Ile Ser Cys Gly His Cys Tyr Pro Cys Ser
115
Val Gly Lys Pro Asn Val Cys Thr Ser Leu Val Val Leu Gly Val His
130
Arg Asp Gly Gly Phe Ser Glu Tyr Ala Val Val Pro Ala Lys Asn Ala
145
Trp His Ile Pro Asp Ala Ile Pro Asp Lys His Ala Val Met Val Glu
165
Pro Phe Thr Ile Ala Ala Asn Val Thr Gly Gln Ala Lys Pro Thr Glu
180
Gln Asp Val Ala Leu Ile Tyr Gly Ala Gly Pro Met Gly Leu Val Thr
195
Val Gln Ala Leu Lys Gly Val Tyr Lys Val Lys Gln Val Ile Val Val
210
Asp Arg Ile Asp Glu Arg Leu Glu Met Ala Gln Arg Ser Gly Ala Asp
225
Trp Val Phe Asn Asn Gly Glu Gln Ser Leu Gln Thr Ala Leu Asp Glu
245
Lys Gly Ile Lys Pro Thr Leu Ile Ile Asp Ala Ala Cys His Pro Ser
260
Ile Leu Gln Glu Ala Ile Thr Leu Ala Ser Pro Ala Ala Arg Ile Val
275
Leu Met Gly Phe Ser Ser Asp Pro Ser Gln Ile Val Gln Gln Gly Ile
290
Thr Gly Lys Glu Leu Ser Ile Phe Ser Ser Arg Leu Asn Ala Asn Lys
305
Phe Pro Val Val Ile Asp Trp Leu Glu Lys Gly Leu Ile Asp Pro Glu
325
Lys Leu Val Thr His Thr Phe Asp Tyr His His Val Thr Asp Ala Ile
340
Glu Leu Phe Glu Lys Asp Gln Arg Gln Cys Cys Lys Val Leu Leu Thr
355
Phe Asp Gln
370

```

<210> 10177

<211> 679

<212> PRT

<213> Enterobacter cloacae

<400> 10177

```

Thr Met Ser Val Asn Asn Pro Phe Phe Glu Ile Ser Leu Leu Pro Tyr
1           5           10           15
Gln Ala Pro Arg Phe Asp Ala Ile Asn Asp Ser His Tyr Arg Pro Ala
20
Phe Asp Glu Ala Met Arg Leu Lys Arg Ala Asp Ile Asp Ala Ile Ile
35
Ala Gln Arg Ala Ala Pro Asp Phe Asp Asn Thr Val Leu Ala Leu Glu
40

```

50		55		60	
Lys 65	Ser Gly Ala Met	Leu 70	Ser Arg Val Ser	Ser 75	Val Phe Phe Ala Met 80
Thr 85	Ser Ala His Thr	Asn 90	Asp Asp Leu Gln	Ala 95	Leu Asp Glu Gln Phe 95
Ser 100	Thr Glu Leu Ala Gly	Leu 105	Ala Asn Asp Ile	Trp 110	Leu Asn Asp Thr 110
Leu 115	Phe Ala Arg Val Glu	Ala 120	Val Trp Gln Asp	Arg 125	Glu Ala Leu Asp 125
Ala 130	Glu Ser Arg Arg Leu	Thr 135	Glu Glu Thr Tyr	Gln 140	His Phe Val Leu 140
Ala 145	Gly Ala Arg Leu Asn	Ala 150	Asp Glu Lys Ala	Glu 155	Leu Lys Ser Leu 155
Asn 165	Thr Glu Ala Ala Thr	Leu 170	Ser Gln Phe Asn	Gln 175	Gln Arg Leu Leu 175
Ala 180	Ala Asn Lys Ala Gly	Gly 185	Leu Val Asp Asp	Val 190	Arg Gln Leu Leu 190
Asp 195	Gly Leu Ser Ala Glu	Glu 200	Met Ala Ala Ala	His 205	Ala Ala Ala Ala 205
Glu 210	Lys Gly Leu Lys Glu	Arg 215	Trp Leu Ile Pro	Leu 220	Leu Asn Thr Thr 220
Gln 225	Gln Pro Ala Leu Ala	Ala 230	Leu Ala Leu Arg	Glu 235	Thr Arg Lys Lys 235
Leu 245	Phe Ser Ala Gly Thr	Glu 250	Arg Thr Gln Lys	Gly 255	Asp Glu Asn Asp 255
Thr 260	Arg Glu Leu Ile Arg	Arg 265	Leu Thr Ala Leu	Arg 270	Ala Arg Gln Ala 270
Gln 275	Leu Leu Gly Phe Asp	Asn 280	Tyr Ala Ser Trp	Ser 285	Ile Ala Asp Gln 285
Met 290	Ala Lys Thr Pro Glu	Ala 295	Ala Leu Glu Phe	Met 300	Arg Gly Ile Val 300
Pro 305	Ala Ala Arg Gly Arg	Ala 310	Ala Leu Glu Gln	Ala 315	Asp Ile Gln Lys 315
Val 325	Ile Asp Asp Glu Gln	Gly 330	Gly Phe Thr Val	Gln 335	Ala Trp Asp Trp 335
Ala 340	Phe Tyr Ala Glu Arg	Val 345	Arg Ser Ala Lys	Tyr 350	Ala Leu Asp Glu 350
Ser 355	Gln Ile Lys Pro Tyr	Phe 360	Ala Leu Asn Thr	Val 365	Leu Glu Asp Gly 365
Val 370	Phe Trp Thr Ala Thr	Gln 375	Leu Phe Gly Ile	Arg 380	Phe Val Glu Arg 380
Phe 385	Asp Ile Pro Val Tyr	His 390	Pro Asp Val Arg	Val 395	Trp Glu Ile Phe 395
Asp 405	His Thr Gly Glu Gly	Met 410	Ala Leu Phe Tyr	Gly 415	Asp Phe Phe Ala 415
Arg 420	Asp Ser Lys Ala Gly	Gly 425	Ala Trp Met Gly	Asn 430	Phe Val Glu Gln 430
Ser 435	Tyr Glu Phe Ala Ala	Arg 440	Pro Val Ile Tyr	Asn 445	Val Cys Asn Tyr 445
Gln 450	Lys Pro Ala Asn Gly	Gln 455	Thr Ala Leu Ile	Ser 460	Trp Asp Asp Val 460
Ile 465	Thr Leu Phe His Glu	Phe 470	Gly His Thr Leu	His 475	Gly Leu Phe Ala 475
Ser 485	Gln Arg Tyr Ala Thr	Leu 490	Ser Gly Thr Asn	Thr 495	Pro Arg Asp Phe 495
Val 500	Glu Phe Pro Ser Gln	Ile 505	Asn Glu His Trp	Ala 510	Ser His Pro Gln 510
Val 515	Phe Ala His Phe Ala	Arg 520	His Tyr Gln Thr	Gly 525	Glu Pro Met Pro 525
Asp 530	Ala Leu Arg Glu Lys	Met 535	Leu Asn Ala Thr	Gln 540	Phe Asn Lys Gly 540

Tyr Asp Met Thr Glu Leu Leu Ser Ala Ala Leu Leu Asp Met Asn Trp
 545 550 555 560
 His Gly Ile Gln Glu Pro Val Glu Asp Val Glu Ala Phe Glu Ala Ala
 565 570 575
 Ala Leu Lys Lys Glu Gly Leu Asp Leu Pro Ala Val Pro Pro Arg Tyr
 580 585 590
 Arg Ser Ser Tyr Phe Ala His Ile Phe Gly Gly Gly Tyr Ala Ala Gly
 595 600 605
 Tyr Tyr Ala Tyr Leu Trp Thr Gln Met Leu Ala Asp Asp Gly Tyr Gln
 610 615 620
 Trp Phe Val Glu Gln Gly Gly Leu Thr Arg Glu Asn Gly Gln Thr Phe
 625 630 635 640
 Arg Glu Ala Ile Leu Ser Arg Gly Asn Ser Thr Asp Leu Ala Glu Leu
 645 650 655
 Tyr Arg Asn Trp Arg Gly His Asp Pro Lys Ile Glu Pro Met Leu Glu
 660 665 670
 Asn Arg Gly Leu Ser Ala
 675

<210> 10178

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 10178

Ile Gly His Lys Glu Thr Gly Val Arg Asn Val Lys Ile Glu Glu Val
 1 5 10 15
 Glu Gln Leu Asp Arg Glu Val Val Ala Ile Gly Asn Asp Tyr Val Gln
 20 25 30
 Gly Phe Met Leu Pro Gln His Lys His Arg Arg Ala Gln Leu Leu Tyr
 35 40 45
 Gly Ala Thr Gly Leu Met His Val Ile Thr Gln Asp Gly Glu Trp Ile
 50 55 60
 Val Pro Pro Gln His Ala Val Trp Ile Pro Pro Glu Thr Met His Ala
 65 70 75 80
 Val Lys Phe Val Gly Val Thr Thr Arg Ser Leu Tyr Ile Glu Pro Asp
 85 90 95
 Phe Val Asn Ala Phe Leu Lys Tyr Pro Arg Cys Glu Val Ile Ser Val
 100 105 110
 Ser Pro Leu Leu Arg Gln Leu Leu Glu Ser Val Asp Leu Pro Pro
 115 120 125
 Leu Tyr Glu Ser Thr Arg Asp Arg Ala Leu Ile Asn Leu Met Ile Leu
 130 135 140
 Glu Leu Ala Ala Met Pro Val Arg Glu Phe Asp Ile Pro Leu Pro Arg
 145 150 155 160
 His Pro Ala Leu Leu Ala Leu Cys Gln Ala Phe Leu Leu Asn Pro Ser
 165 170 175
 Ile His Asp Pro Ala Glu Arg Trp Ala Asn Ala Leu Phe Met Ser Asp
 180 185 190
 Ser Thr Phe Arg Arg His Phe Leu Lys Gln Met Gly Met Ser Phe Ser
 195 200 205
 Val Trp Arg Gln Arg Ala Cys Val Val Ser Ala Leu Ala Leu Leu Ile
 210 215 220
 Thr Gly Lys Pro Val Asn Glu Val Ala Leu Thr Leu Gly Tyr Asp Asn
 225 230 235 240
 Ala Ser Ser Phe Ala Thr Met Phe Arg Arg Val Thr Gly Gln Pro Pro
 245 250 255
 Ser Tyr Tyr His Pro Ala Leu Phe Lys Lys Phe His Gly Thr Gly His
 260 265 270
 Arg Ser
 275

<210> 10179
 <211> 165
 <212> PRT
 <213> Enterobacter cloacae

<400> 10179
 Ile Met Ile Asn Lys Ile Leu Val Ser Ala Cys Leu Met Gly Leu Lys
 1 5 10 15
 Val Arg Tyr Asn Gly Lys Glu Lys Ala Gln Met Thr His Gln Leu Ala
 20 25 30
 Arg Trp Gln Gln Glu Gln Arg Leu Val Ile His Cys Pro Glu Leu Ala
 35 40 45
 Ala Gly Leu Pro Val Pro Arg Pro Pro Ala Glu Ile Met Ser Ala Glu
 50 55 60
 Gly Lys Asp Val Met Arg Gly Gln Ala Arg Ile Glu Asn Thr Gly
 65 70 75 80
 Thr Asp Val Thr Gly His Tyr Gln Leu Ala Ala Trp Leu Ala Leu Arg
 85 90 95
 Ala Ala Gln Glu Ala Gly Cys Thr Ala Ala Leu Leu Thr Asp Gly Ser
 100 105 110
 Pro Thr Cys Gly Thr Gln Phe Ile Tyr Asn Gly Ser Phe Ser Asn Gln
 115 120 125
 Arg Lys Ser Gly Met Gly Val Ala Ser Leu Leu Ser Glu His Gly
 130 135 140
 Ile Ala Val Phe Ser Glu Thr Gln Phe Ala Glu Leu Val Asn Trp Ile
 145 150 155 160
 Glu Glu Arg Glu
 165

<210> 10180
 <211> 103
 <212> PRT
 <213> Enterobacter cloacae

<400> 10180
 Ile Tyr Arg Phe Ile Asn Arg Arg Asn Asp Met Lys Lys Ala Leu Leu
 1 5 10 15
 Gly Ser Val Leu Ala Leu Thr Val Ala Ser Phe Gly Ala Ser Ala Ala
 20 25 30
 Asp Met Ile Ser Lys Asp Glu Ala His His Phe Lys Leu Glu Tyr Leu
 35 40 45
 Gly Asn Val Ser Val Gly Ala Ser Gly Gly Gln Ile Ser Ser Pro Ser
 50 55 60
 Asp Leu His Gln Lys Leu Ser Lys Leu Ala Asp Glu Lys Gly Gly Lys
 65 70 75 80
 Tyr Tyr Val Ile Ile Ala Ala Arg Glu His Gly Pro Asn Phe Gln Ala
 85 90 95
 Val Ala Glu Val Phe Lys
 100

<210> 10181
 <211> 530
 <212> PRT
 <213> Enterobacter cloacae

<400> 10181
 Gln Ser Glu Cys His Thr Asp Lys Ser Arg Asn Ala Ile Pro Leu Leu
 1 5 10 15
 Asp Cys Ile His Thr Leu Arg Ser Ile Thr Lys Glu Tyr Pro Met Ser
 20 25 30

Glu	Ser	His	Val	Ala	Ile	Leu	Pro	Gly	Val	Gln	Gln	Phe	Leu	Asp	Arg
		35					40					45			
Gln	His	Gly	Leu	Trp	Ile	Glu	Gly	Arg	Gln	Ala	Ala	Ser	Asp	Ser	Glu
	50					55					60				
Lys	Arg	Leu	Asn	Val	Tyr	Asn	Pro	Ala	Thr	Gly	Glu	Val	Ile	Ala	Ser
65				70						75				80	
Thr	Ala	Asp	Ala	Ser	Val	Asp	Asp	Val	Asp	Arg	Ala	Val	Met	Ser	Gly
				85					90					95	
Trp	Arg	Ala	Phe	Val	Ala	Arg	Ser	Trp	Ala	Gly	Arg	Leu	Pro	Ala	Glu
			100					105					110		
Arg	Glu	Arg	Ile	Leu	Leu	Arg	Phe	Ala	Asp	Leu	Val	Glu	Gln	His	Gly
		115					120					125			
Glu	Glu	Leu	Ala	Gln	Leu	Glu	Thr	Leu	Glu	Gln	Gly	Lys	Ser	Ile	Asn
	130					135					140				
Ile	Ser	Arg	Ala	Phe	Glu	Val	Gly	Cys	Thr	Leu	Asn	Trp	Met	Arg	Tyr
145					150					155				160	
Thr	Ala	Gly	Leu	Thr	Thr	Lys	Ile	Ala	Gly	Lys	Thr	Leu	Asp	Leu	Ser
				165					170					175	
Ile	Pro	Leu	Pro	Gln	Gly	Ala	Arg	Tyr	Gln	Ala	Trp	Thr	Arg	Lys	Glu
			180					185					190		
Pro	Val	Gly	Val	Val	Ala	Gly	Ile	Val	Pro	Trp	Asn	Phe	Pro	Leu	Met
		195					200					205			
Ile	Gly	Met	Trp	Lys	Val	Met	Pro	Ala	Leu	Ala	Ala	Gly	Cys	Ser	Ile
	210					215					220				
Val	Ile	Lys	Pro	Ser	Glu	Thr	Thr	Pro	Leu	Thr	Leu	Leu	Arg	Val	Ala
225					230					235				240	
Glu	Leu	Ala	Ser	Glu	Ala	Gly	Ile	Pro	Asp	Gly	Val	Phe	Asn	Val	Val
				245					250					255	
Thr	Gly	Ser	Gly	Ala	Val	Cys	Gly	Ala	Ala	Leu	Thr	Ser	His	Pro	Arg
			260					265					270		
Ile	Ala	Lys	Val	Ser	Phe	Thr	Gly	Ser	Thr	Ala	Thr	Gly	Lys	Gln	Ile
		275					280					285			
Ala	Arg	Val	Ala	Ala	Asp	Thr	Leu	Thr	Gly	Val	Thr	Leu	Glu	Leu	Gly
	290					295					300				
Gly	Lys	Asn	Pro	Ala	Ile	Val	Leu	Lys	Asp	Ala	Asp	Pro	Ala	Trp	Val
305					310					315				320	
Ile	Glu	Gly	Leu	Met	Thr	Gly	Ser	Phe	Leu	Asn	Gln	Gly	Gln	Val	Cys
				325					330					335	
Ala	Ala	Ser	Ser	Arg	Ile	Tyr	Ile	Glu	Ala	Pro	Leu	Phe	Asp	Thr	Leu
			340					345					350		
Val	Ser	Gly	Phe	Glu	Gln	Ala	Val	Lys	Ser	Leu	Ser	Val	Gly	Pro	Gly
		355					360					365			
Met	Ser	Pro	Asp	Ala	Phe	Ile	Asn	Pro	Leu	Val	Ser	Arg	Ala	His	Cys
	370					375						380			
Asp	Lys	Val	Gln	Ala	Phe	Leu	Asp	Glu	Ala	Lys	Ala	His	Asn	Ala	Glu
385					390					395				400	
Leu	Ile	Ala	Gly	Asn	Arg	Gly	Pro	Asp	Gly	Lys	Gly	Tyr	Tyr	Val	Ser
				405					410					415	
Pro	Thr	Leu	Val	Val	Asn	Pro	Asp	Asn	His	Leu	Arg	Leu	Thr	Arg	Glu
			420					425					430		
Glu	Val	Phe	Gly	Pro	Val	Val	Asn	Leu	Val	Arg	Val	Asp	Asp	Gly	Glu
		435					440					445			
Glu	Ala	Leu	Gln	Leu	Ala	Asn	Asp	Thr	Glu	Tyr	Gly	Leu	Thr	Ala	Ser
	450					455					460				
Val	Trp	Thr	Gln	Asn	Ile	Ser	Lys	Ala	Leu	Ala	Tyr	Thr	Asp	Arg	Leu
465					470					475				480	
Gln	Ala	Gly	Thr	Val	Trp	Val	Asn	Ser	His	Thr	Leu	Ile	Asp	Ala	Asn
				485					490					495	
Leu	Pro	Phe	Gly	Met	Lys	Gln	Ser	Gly	Thr	Gly	Arg	Asp	Phe	Gly	
		500						505				510			
Pro	Asp	Trp	Leu	Asp	Gly	Trp	Cys	Glu	Thr	Lys	Ser	Val	Cys	Val	Arg

Tyr 515 520 525
 530

<210> 10182
 <211> 333
 <212> PRT
 <213> Enterobacter cloacae

<400> 10182
 Leu Leu Arg Asn Gln Met Ile His His Phe Ala Ile Cys Gly Asp Leu
 1 5 10 15
 Thr Asn His Lys Gly Gly Tyr Val Thr Gln Glu Gln Arg Phe Glu Gln
 20 25 30
 Arg Ile Ala Gln Glu Thr Ala Ile Glu Pro Gln Asp Trp Met Pro Asp
 35 40 45
 Ala Tyr Arg Lys Thr Leu Ile Arg Gln Ile Gly Gln His Ala His Ser
 50 55 60
 Glu Ile Val Gly Met Leu Pro Glu Gly Asn Trp Ile Thr Arg Ala Pro
 65 70 75 80
 Thr Leu Arg Arg Lys Ala Ile Leu Leu Ala Lys Val Gln Asp Glu Ala
 85 90 95
 Gly His Gly Leu Tyr Leu Tyr Ser Ala Ala Glu Thr Leu Gly Cys Ala
 100 105 110
 Arg Glu Asp Ile Tyr Gln Lys Met Leu Asp Gly Lys Met Lys Tyr Ser
 115 120 125
 Ser Ile Phe Asn Tyr Pro Thr Leu Ser Trp Ala Asp Ile Gly Val Ile
 130 135 140
 Gly Trp Leu Val Asp Gly Ala Ala Ile Val Asn Gln Val Ala Leu Cys
 145 150 155
 Arg Thr Ser Tyr Gly Pro Tyr Ala Arg Ala Met Val Lys Ile Cys Lys
 165 170 175
 Glu Glu Ser Phe His Gln Arg Gln Gly Phe Glu Ala Cys Met Ala Leu
 180 185 190
 Ala Gln Gly Ser Glu Ala Gln Arg Gln Met Leu Gln Asp Ala Ile Asn
 195 200 205
 Arg Phe Trp Trp Pro Ala Leu Met Met Phe Gly Pro Asn Asp Asp Asn
 210 215 220
 Ser Pro Asn Ser Ala Arg Ser Leu Ala Trp Lys Ile Lys Arg Phe Gly
 225 230 235
 Asn Asp Glu Leu Arg Gln Arg Phe Val Asp Asn Thr Val Pro Gln Val
 245 250 255
 Glu Met Leu Gly Met Thr Val Pro Asp Pro Asp Leu Arg Phe Asp Glu
 260 265 270
 Glu Ser Gly His Tyr Arg Phe Gly Glu Ile Asp Trp Gln Glu Phe Asp
 275 280 285
 Glu Val Ile Asn Gly Arg Gly Ile Cys Asn His Glu Arg Leu Ala Ala
 290 295 300
 Lys Arg Lys Ala Trp Asp Asp Gly Ala Trp Val Arg Glu Ala Ala Leu
 305 310 315 320
 Ala His Ala Glu Lys Gln Arg Ala Arg Gln Ala Ala
 325 330

<210> 10183
 <211> 100
 <212> PRT
 <213> Enterobacter cloacae

<400> 10183
 Glu Glu Ser Thr Met Ser Asn Val Tyr Trp Pro Leu Tyr Glu Val Phe
 1 5 10 15

Val Arg Ser Lys Gln Gly Leu Ser His Arg His Val Gly Ser Leu His
 20 25 30
 Ala Ala Asp Asp Arg Met Ala Leu Glu Asn Ala Arg Asp Ala Tyr Thr
 35 40 45
 Arg Arg Ser Glu Gly Cys Ser Ile Trp Val Val Lys Ala Ser Glu Ile
 50 55 60
 Val Ala Ser Gln Pro Glu Glu Ser Gly Glu Phe Phe Asp Pro Ala Glu
 65 70 75 80
 Ser Lys Val Tyr Arg His Pro Thr Phe Tyr Thr Ile Pro Asp Gly Ile
 85 90 95
 Glu His Met
 100

<210> 10184

<211> 266

<212> PRT

<213> Enterobacter cloacae

<400> 10184

Arg Thr Leu Ile Val Glu Ser Ile Leu Ser His Val Glu Gln Gly Val
 1 5 10 15
 Met Thr Ile Thr Leu Asn Arg Pro Glu Arg Leu Asn Ser Phe Asn Asp
 20 25 30
 Val Met His Gln Gln Leu Ser Glu Cys Leu Lys Gln Ala Glu Arg Asp
 35 40 45
 Asp Ala Ile Arg Cys Leu Leu Ile Ile Gly Ala Gly Arg Gly Phe Cys
 50 55 60
 Ala Gly Gln Asp Leu Asn Asp Arg Asn Val Asp Pro Asn Gly Pro Ala
 65 70 75 80
 Pro Asp Leu Gly Met Ser Val Glu Thr Phe Tyr Asn Pro Leu Val Arg
 85 90 95
 Arg Leu Ala Lys Leu Pro Lys Pro Val Ile Cys Ala Val Asn Gly Val
 100 105 110
 Ala Ala Gly Ala Gly Ala Thr Leu Ala Leu Gly Cys Asp Met Val Ile
 115 120 125
 Ala Ala Arg Ser Ala Ser Phe Val Met Ala Phe Ser Lys Leu Gly Leu
 130 135 140
 Val Pro Asp Cys Gly Gly Thr Trp Leu Leu Pro Arg Val Ala Gly Arg
 145 150 155 160
 Ala Arg Ala Met Gly Leu Ala Leu Leu Gly Asp Lys Leu Ser Ala Glu
 165 170 175
 Gln Ala Gln Ala Trp Gly Met Ile Trp Gln Val Val Asp Asp Glu Gln
 180 185 190
 Leu Ser Ala Thr Val Gln Gln Met Ala Leu His Phe Ala Ser Gln Pro
 195 200 205
 Thr Phe Gly Leu Gly Leu Ile Lys Gln Ala Ile Asn Ala Ala Glu Thr
 210 215 220
 Asn Thr Leu Asp Ala Gln Leu Asp Leu Glu Arg Asp Tyr Gln Arg Leu
 225 230 235 240
 Ala Gly Arg Ser Asp Asp Tyr Arg Glu Gly Val Ser Ala Phe Leu Ala
 245 250 255
 Lys Arg Ala Pro Asn Phe Thr Gly Lys
 260 265

<210> 10185

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 10185

Cys Glu Tyr Pro Ala Met Ile Asn Thr Thr Lys Leu Asp Pro Ile Glu

1	5	10	15
Thr Ala Ser Ile Asp Glu Leu Gln Ala Leu Gln Thr Ala Arg Leu Lys			
20	25	30	
Trp Thr Leu Asn His Ala Tyr Asn Asn Val Pro Met Tyr Lys Arg Lys			
35	40	45	
Phe Asp Ala Ala Gly Val His Pro Asp Asp Phe Asn Glu Leu Ala Asp			
50	55	60	
Leu Gln Lys Phe Pro Cys Thr Thr Lys Gln Asp Leu Arg Asp Asn Tyr			
65	70	75	80
Pro Phe Asp Thr Phe Ala Val Pro Met Glu Gln Val Val Arg Ile His			
85	90	95	
Ala Ser Ser Gly Thr Thr Gly Lys Pro Thr Val Val Gly Tyr Thr Gln			
100	105	110	
Asn Asp Ile Asp Asn Trp Ala Asn Ile Val Ala Arg Ser Leu Arg Ala			
115	120	125	
Ala Gly Gly Ser Ala Lys Asp Lys Ile His Val Ala Tyr Gly Tyr Gly			
130	135	140	
Leu Phe Thr Gly Gly Leu Gly Ala His Tyr Gly Ala Glu Arg Leu Gly			
145	150	155	160
Ala Thr Val Ile Pro Met Ser Gly Gly Gln Thr Glu Lys Gln Ala Gln			
165	170	175	
Leu Ile Arg Asp Phe Gln Pro Asp Met Ile Met Val Thr Pro Ser Tyr			
180	185	190	
Cys Leu Asn Leu Ile Glu Glu Leu Glu Arg Gln Met Gly Gly Asp Ala			
195	200	205	
Ser Ala Cys Ser Leu Arg Val Gly Val Phe Gly Ala Glu Pro Trp Thr			
210	215	220	
Gln Ala Met Arg Arg Glu Ile Glu Lys Arg Leu Gly Ile Thr Ala Leu			
225	230	235	240
Asp Ile Tyr Gly Leu Ser Glu Val Met Gly Pro Gly Val Ala Met Glu			
245	250	255	
Cys Leu Glu Thr Ala Asp Gly Pro Thr Ile Trp Glu Asp His Phe Tyr			
260	265	270	
Pro Glu Ile Val Asn Pro Asn Asp Gly Thr Pro Leu Ala Asp Gly Glu			
275	280	285	
Gln Gly Glu Leu Leu Phe Thr Thr Leu Thr Lys Glu Ala Leu Pro Val			
290	295	300	
Ile Arg Tyr Arg Thr Arg Asp Leu Thr Arg Leu Leu Pro Gly Thr Ala			
305	310	315	320
Arg Thr Met Arg Arg Met Asp Arg Ile Ser Gly Arg Ser Asp Asp Met			
325	330	335	
Leu Ile Ile Arg Gly Val Asn Val Phe Pro Ser Gln Leu Glu Glu Glu			
340	345	350	
Ile Val Lys Phe Glu His Leu Ser Pro His Tyr Gln Leu Glu Val Asn			
355	360	365	
Arg Arg Gly His Leu Asp Ser Leu Ser Val Lys Val Glu Leu Lys Gln			
370	375	380	
Ser Ser Leu Thr Leu Thr His Glu Gln Arg Cys Gln Val Cys His Gln			
385	390	395	400
Leu Arg His Arg Ile Lys Ser Met Val Gly Ile Ser Thr Asp Val Met			
405	410	415	
Ile Val Asn Cys Gly Ser Ile Pro Arg Ser Glu Gly Lys Ala Cys Arg			
420	425	430	
Val Phe Asp Leu Arg Lys Val Ala Ala Asn Gly			
435	440		

<210> 10186

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 10186

```

Phe Ile Gln Glu Lys Asn Asn Asn Arg Met Asn His Met Asn Lys Leu
1      5      10      15
Asp Ala Phe Ile Gln His Ala Val Ser Ser Val Pro Val Ser Gly Thr
20      25      30
Ser Leu Ile Ser Ser Leu Tyr Gly Asp Ala Leu Ala His Arg Gly Gly
35      40      45
Glu Ile Trp Leu Gly Ser Leu Ala Ala Leu Leu Glu Gly Met Gly Phe
50      55      60
Gly Glu Arg Phe Val Arg Thr Ala Leu Phe Arg Leu Asn Lys Glu Gly
65      70      75      80
Trp Leu Asp Val Ser Arg Ile Gly Arg Arg Ser Phe Tyr Arg Leu Ser
85      90      95
Asp Lys Gly Leu Arg Leu Thr Arg Arg Ala Glu Asn Lys Ile Tyr Arg
100     105     110
Ala Glu Leu Pro Ala Trp Asp Gly Lys Trp Leu Leu Leu Ser Glu
115     120     125
Gly Leu Asp Lys Thr Thr Leu Ala Asp Val Lys Lys Gln Leu Ile Trp
130     135     140
Gln Gly Phe Gly Thr Leu Ala Pro Ser Leu Met Ala Ser Pro Ser Gln
145     150     155     160
Asn Leu Ala Asp Val Gln Ser Leu Leu His Asp Ala Gly Val Ala Glu
165     170     175
Asn Val Ile Phe Phe Glu Ala His Ser Pro Leu Ala Leu Ser Arg Ala
180     185     190
Ala Leu Arg Ser Arg Val Glu Glu Cys Trp Gln Leu Thr Glu Gln Asn
195     200     205
Ala Met Tyr Glu Thr Phe Ile Asn Ser Phe Arg Pro Leu Leu Pro Leu
210     215     220
Leu Lys Glu Thr Pro Pro Glu Asp Leu Thr Pro Glu Arg Cys Phe Gln
225     230     235     240
Ile Gln Leu Leu Leu Ile His Phe Tyr Arg Arg Val Val Leu Lys Asp
245     250     255
Pro Leu Leu Pro Glu Glu Leu Leu Pro Ala His Trp Ala Gly Gln Ser
260     265     270
Ala Arg Gln Leu Cys Ile Asn Ile Tyr Gln Arg Val Ala Ala Gly Ala
275     280     285
Leu Ala Phe Val Ser Glu Lys Gly Glu Thr Ser Val Gly Glu Leu Pro
290     295     300
Ala Pro Gly Thr Leu Tyr His Gln Arg Phe Gly Gly Leu Asn Ile Thr
305     310     315     320

```

<210> 10187

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 10187

```

Gly Glu Gly Met Pro Val Tyr Gln Ile Asp Gly Leu Thr Pro Val Val
1      5      10      15
Pro Glu Glu Ser Tyr Val His Pro Thr Ala Val Leu Ile Gly Asp Val
20      25      30
Ile Leu Gly Lys Gly Val Tyr Val Gly Pro Asn Ala Ser Leu Arg Gly
35      40      45
Asp Phe Gly Arg Ile Val Val Lys Asp Gly Ala Asn Ile Gln Asp Asn
50      55      60
Cys Val Met His Gly Phe Pro Glu Gln Asp Thr Val Val Glu Glu Asp
65      70      75      80
Gly His Ile Gly His Ser Ala Ile Leu His Gly Cys Ile Ile Arg Arg

```

```
<210> 10188
<211> 516
<212> PRT
<213> Enterobacter cloacae
```

4400> 10188															
Ser	Gly	Val	Asn	Leu	Val	Cys	Arg	His	Ala	Ala	Pro	Arg	Leu	Gly	Thr
1			5						10				15		
Glu	Arg	Asp	Cys	Arg	His	Gly	Arg	Phe	Thr	Arg	Phe	Cys	Arg	His	Ala
			20					25					30		
Ala	Asp	Pro	Gln	Lys	Arg	Phe	Pro	Asp	Ala	Gly	Pro	Gly	Gln	Arg	Gly
			35				40					45			
Gly	Arg	Arg	Pro	Arg	His	Ser	Ser	Arg	Ser	Gly	Lys	Arg	Glu	Gly	Ser
			50			55					60				
His	Arg	Val	Ser	Arg	Arg	Val	Gln	Pro	Gly	Ala	Ala	Pro	Ala	Phe	Arg
65					70					75					80
Pro	Ala	Arg	Cys	Thr	Ser	Ala	Arg	Thr	Ala	Gln	Asp	Gly	Ala	Thr	
			85						90				95		
Met	Lys	Ile	Ala	Ile	Ile	Gly	Ser	Gly	Ile	Ala	Gly	Leu	Thr	Cys	Ala
			100					105					110		
Trp	Arg	Leu	Ala	Gly	His	His	Gln	Ile	Thr	Val	Phe	Glu	Ala	Gln	Ala
			115				120					125			
Thr	Pro	Gly	Gly	His	Thr	Ala	Thr	Val	Asp	Val	Asp	Thr	Pro	Gln	Ser
			130			135					140				
Thr	Phe	Ala	Ile	Asp	Thr	Gly	Phe	Ile	Val	Tyr	Asn	Asp	Arg	Thr	Tyr
145					150					155					160
Pro	Arg	Phe	Met	Gly	Leu	Leu	Ser	Glu	Leu	Gly	Ile	Ser	Gly	Gln	Lys
				165					170					175	
Thr	Gln	Met	Ser	Phe	Ser	Val	His	Asn	Pro	Gln	Ser	Gly	Leu	Glu	Tyr
			180					185					190		
Asn	Gly	His	Thr	Leu	Thr	Ser	Leu	Phe	Ala	Gln	Arg	Arg	Asn	Leu	Leu
			195				200					205			
Asn	Pro	Ala	Phe	Trp	Thr	Leu	Leu	Lys	Glu	Ile	Val	Arg	Phe	Asn	Arg
					215						220				
Leu	Ala	Lys	Gln	Thr	Leu	Arg	Gly	Glu	Val	Asp	Gly	Ser	Ala	Thr	Leu
225					230					235					240
Glu	Thr	Phe	Leu	Arg	Gln	His	Arg	Phe	Thr	Pro	Phe	Phe	Ala	Arg	His
				245					250					255	
Tyr	Ile	Leu	Pro	Met	Gly	Ala	Ala	Ile	Trp	Ser	Ser	Ser	Leu	Gln	Glu
			260					265					270		
Met	Lys	Arg	Phe	Pro	Leu	Pro	Leu	Phe	Leu	Arg	Phe	Phe	Glu	Asn	His
			275				280					285			
Gly	Leu	Leu	Asp	Ile	Thr	His	Arg	Pro	Gln	Trp	Tyr	Val	Val	Pro	Gly
			290			295					300				
Gly	Ser	Arg	Glu	Tyr	Ile	Arg	Ala	Met	Met	Asp	Lys	Leu	Gly	Asp	Arg

305 310 315 320
 Leu Thr Leu His Leu Asn Ala Pro Val Gln Lys Val Val Arg His Asp
 325 330 335
 Arg Gly Val Asp Ile Glu Arg Glu Gly Val Thr His Thr Phe Asp Gln
 340 345 350
 Val Ile Phe Ala Cys His Ser Ala Gln Ala Leu Ala Met Leu Ala Ser
 355 360 365
 Pro Thr Gln Ala Glu Arg Glu Val Leu Gly Asp Ile Gly Trp Gln Arg
 370 375 380
 Asn Glu Val Val Leu His Ser Asp Pro Arg Trp Leu Pro Val Arg Lys
 385 390 395 400
 Arg Ala Trp Ala Ser Trp Asn Tyr Arg Leu Ser Glu Gln Asp Arg Ala
 405 410 415
 Ser Ala Cys Val Thr Tyr Asn Met Asn Ile Leu Gln Gly Leu Pro Pro
 420 425 430
 Gly Ser Pro Leu Phe Cys Val Thr Leu Asn Pro Glu Thr Pro Val Glu
 435 440 445
 Glu Arg Tyr Val Leu Arg Arg Phe Val Tyr Glu His Pro Leu Phe Asn
 450 455 460
 Pro Gln Ser Trp Gln Ala Gln Ala Arg Arg Gly Glu Ile Asn Gly Arg
 465 470 475 480
 Gln Arg Ser Trp Phe Cys Gly Ala Tyr Trp Tyr Asn Gly Phe His Glu
 485 490 495
 Asp Gly Val Arg Ser Ala Leu Asp Val Val Asn Ala Ile Ala Ala Gly
 500 505 510
 Glu Gly Asn
 515

<210> 10189

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 10189

Thr Leu Met Thr Asp Pro Val Phe Ala Leu Glu Pro Asp Ile Pro Arg
 1 5 10 15
 Asn Val Arg Val Ala Arg Trp Leu Leu Phe Arg Leu Leu Asn Gly Leu
 20 25 30
 Arg Gly Gly Ser Leu Thr Leu Arg Glu Gly Ala Gln Thr Phe Gln Phe
 35 40 45
 Gly Asp Ala Ser Ala Ala Leu His Ala Glu Val Gln Val Leu Ala Pro
 50 55 60
 Gly Val Tyr Trp Arg Ile Leu Thr Gly Gly Ser Leu Ala Ala Ala Gln
 65 70 75 80
 Ala Trp Met Asp Gly Asp Trp Glu Thr Pro His Leu Thr Pro Leu Leu
 85 90 95
 Glu Leu Ile Ala Arg Asn Ser Gln Ile Leu Gly Gln Leu Glu Lys Gly
 100 105 110
 Phe Arg Leu Leu Gly Lys Pro Val Glu Arg Leu Arg His Trp Met Arg
 115 120 125
 Arg Asn Ser Arg Ala Gln Ala Arg Glu Asn Ile Ala Ala His Tyr Asp
 130 135 140
 Leu Gly Asn Ala Phe Tyr Ala His Phe Leu Asp Glu Asp Leu Leu Tyr
 145 150 155 160
 Ser Ser Ala Leu Phe Asn Gly Asp Glu Gln Asp Leu Asn Ala Ala Gln
 165 170 175
 Gln Ala Lys Met Ala Arg Leu Cys Asp Gln Leu Ala Leu Thr Ala Asn
 180 185 190
 Asp His Leu Leu Glu Ile Gly Thr Gly Trp Gly Ala Met Ala Glu Tyr
 195 200 205
 Ala Ala Arg His Tyr Gly Cys Arg Val Thr Thr Thr Thr Leu Ser Gln

210 215 220
 Glu Gln Tyr His Trp Ala Thr Ala Arg Ile Val Arg Ala Gly Leu Gln
 225 230 235 240
 Asp Arg Val Glu Val Leu Cys Asp Tyr Arg Asp Leu Thr Gly Val
 245 250 255
 Tyr Asp Lys Leu Val Ser Val Glu Met Ile Glu Ala Val Gly Gln Arg
 260 265 270
 Tyr Leu Pro Thr Phe Phe Arg Thr Cys Gln Ala Arg Leu Arg Pro Gly
 275 280 285
 Gly Arg Met Ala Ile Gln Ala Ile Thr Ile Gln Asp Gln Arg Tyr Arg
 290 295 300
 Asp Tyr Ser Lys Ser Val Asp Phe Ile Gln Arg Tyr Ile Phe Pro Gly
 305 310 315 320
 Gly Phe Leu Pro Ser Ile Thr Ala Met Asn Glu Leu Met Thr Arg His
 325 330 335
 Thr Asp Phe Val Val Arg Asn Leu Phe Asp Met Gly Pro Asp Tyr Ala
 340 345 350
 Arg Thr Leu Ala His Trp Arg Gln Arg Phe Val His Ala Trp Gln Glu
 355 360 365
 Ile Glu Lys Leu Gly Phe Asp Asp Arg Phe Arg Arg Met Trp Leu Tyr
 370 375 380
 Tyr Leu Gly Tyr Cys Glu Ala Gly Phe Asn Ala Arg Thr Ile Ser Val
 385 390 395 400
 Val Gln Leu Thr Ala Glu Arg Val
 405

<210> 10190

<211> 1314

<212> PRT

<213> Enterobacter cloacae

<400> 10190

Lys Glu Ile Leu Ser Gly Ser Ala Leu Pro Val Asn Ala Met Thr Glu
 1 5 10 15
 His Gln Lys Leu Thr Phe Pro Met Leu Met Gln Lys Leu Asp Ser Leu
 20 25 30
 Met Leu Arg Asp Lys Gln Arg Phe Ala Arg Arg Leu His Gly Val Lys
 35 40 45
 Lys Val Lys Asn Pro Asp Ala Gln Gln Ala Ile Tyr Gln Glu Met Ala
 50 55 60
 Lys Glu Ile Glu Gln Ala Ala Gly Lys Val Val Leu Arg Glu Ala Ala
 65 70 75 80
 Arg Pro Glu Ile Thr Tyr Pro Glu Asn Leu Pro Val Ser Gln Lys Lys
 85 90 95
 Gln Asp Ile Leu Glu Ala Val Arg Asp His Gln Val Val Ile Val Ala
 100 105 110
 Gly Glu Thr Gly Ser Gly Lys Thr Thr Gln Leu Pro Lys Ile Cys Met
 115 120 125
 Glu Leu Gly Arg Gly Leu Lys Gly Leu Ile Gly His Thr Gln Pro Arg
 130 135 140
 Arg Leu Ala Ala Arg Thr Val Ala Asn Arg Ile Ala Glu Glu Leu Gln
 145 150 155 160
 Thr Glu Pro Gly Gly Cys Ile Gly Tyr Lys Val Arg Phe Ser Asp His
 165 170 175
 Val Ser Asp Asn Thr Met Val Lys Leu Met Thr Asp Gly Ile Leu Leu
 180 185 190
 Ala Glu Ile Gln Gln Asp Arg Leu Leu Met Gln Tyr Asp Thr Ile Ile
 195 200 205
 Ile Asp Glu Ala His Glu Arg Ser Leu Asn Ile Asp Phe Leu Leu Gly
 210 215 220
 Tyr Leu Lys Glu Leu Leu Pro Arg Arg Pro Asp Leu Lys Ile Ile Ile

225					230					235				240
Thr	Ser	Ala	Thr	Ile	Asp	Pro	Glu	Arg	Phe	Ser	Lys	His	Phe	Asn
				245					250					255
Ala	Pro	Ile	Ile	Glu	Val	Ser	Gly	Arg	Thr	Tyr	Pro	Val	Glu	Val
			260					265					270	Arg
Tyr	Arg	Pro	Ile	Val	Glu	Glu	Ala	Asp	Asp	Thr	Glu	Arg	Asp	Gln
		275						280				285		Leu
Gln	Ala	Ile	Phe	Asp	Ala	Val	Asp	Glu	Leu	Gly	Asn	Glu	Ser	Ser
	290				295						300			Gly
Asp	Ile	Leu	Ile	Phe	Met	Ser	Gly	Glu	Arg	Glu	Ile	Arg	Asp	Thr
305				310						315				Ala
Asp	Ala	Leu	Ser	Lys	Arg	Asp	Leu	Arg	Tyr	Thr	Glu	Ile	Leu	Pro
			325						330					335
Tyr	Ala	Arg	Leu	Ser	Asn	Ser	Glu	Gln	Asn	Arg	Val	Phe	Gln	Pro
		340						345					350	His
Ser	Gly	Arg	Arg	Ile	Val	Leu	Ala	Thr	Asn	Val	Ala	Glu	Thr	Ser
	355						360					365		Leu
Thr	Val	Pro	Gly	Ile	Lys	Tyr	Val	Ile	Asp	Pro	Gly	Thr	Ala	Arg
	370				375						380			Ile
Ser	Arg	Tyr	Ser	Tyr	Arg	Thr	Lys	Val	Gln	Arg	Leu	Pro	Ile	Glu
385				390					395					400
Val	Ser	Gln	Ala	Ser	Ala	Asn	Gln	Arg	Lys	Gly	Arg	Cys	Gly	Arg
			405						410					415
Ser	Glu	Gly	Ile	Cys	Ile	Arg	Leu	Tyr	Ser	Glu	Asp	Asp	Phe	Leu
		420						425					430	Ser
Arg	Pro	Glu	Phe	Thr	Asp	Pro	Glu	Ile	Leu	Arg	Thr	Asn	Leu	Ala
	435						440					445		Ser
Val	Ile	Leu	Gln	Met	Thr	Ala	Leu	Gly	Leu	Gly	Asp	Ile	Ala	Ala
	450				455						460			Phe
Pro	Phe	Val	Glu	Ala	Pro	Asp	Lys	Arg	Asn	Ile	Gln	Asp	Gly	Val
465				470					475					Arg
Leu	Leu	Glu	Glu	Leu	Gly	Ala	Ile	Thr	Thr	Asp	Glu	Gln	Ala	Thr
			485						490					495
Tyr	Lys	Leu	Thr	Pro	Leu	Gly	Arg	Gln	Leu	Ser	Gln	Leu	Pro	Val
		500						505					510	Asp
Pro	Arg	Leu	Ala	Arg	Met	Val	Leu	Glu	Ala	Gln	Lys	His	Gly	Cys
	515						520					525		Val
Arg	Glu	Ala	Met	Ile	Ile	Thr	Ser	Ala	Leu	Ser	Ile	Gln	Asp	Pro
	530				535						540			Arg
Glu	Arg	Pro	Met	Asp	Lys	Gln	Gln	Ala	Ser	Asp	Glu	Lys	His	Arg
545				550					555					560
Phe	His	Asp	Lys	Glu	Ser	Asp	Phe	Leu	Ala	Phe	Val	Asn	Leu	Trp
			565						570					575
Tyr	Leu	Gly	Glu	Gln	Lys	Thr	Leu	Ser	Ser	Asn	Gln	Phe	Arg	Arg
		580					585					590		Thr
Gln	Cys	Arg	Val	Asp	Phe	Leu	Asn	Tyr	Leu	Arg	Val	Arg	Glu	Trp
	595						600				605			Gln
Asp	Ile	Tyr	Thr	Gln	Leu	Arg	Gln	Val	Val	Lys	Glu	Leu	Gly	Ile
	610				615						620			Pro
Val	Asn	Ser	Glu	Pro	Ala	Glu	Tyr	Arg	Glu	Ile	His	Ile	Ala	Leu
625				630					635					640
Thr	Gly	Leu	Leu	Ser	His	Ile	Gly	Met	Lys	Asp	Ala	Asp	Lys	Gln
			645					650						655
Phe	Thr	Gly	Ala	Arg	Asn	Ala	Arg	Phe	Ser	Ile	Phe	Pro	Gly	Ser
	660						665					670		Gly
Leu	Phe	Lys	Lys	Pro	Pro	Lys	Trp	Thr	Met	Val	Ala	Glu	Leu	Val
	675					680					685			Glu
Thr	Ser	Arg	Leu	Trp	Gly	Arg	Ile	Ala	Ala	Arg	Ile	Asp	Pro	Glu
	690				695						700			Trp
Val	Glu	Pro	Val	Ala	Gln	His	Leu	Leu	Lys	Arg	Ser	Tyr	Ser	Glu
705				710					715					720

His Trp Glu Arg Gly Gln Gly Ala Val Met Ala Thr Glu Lys Val Thr
 725 730 735
 Val Tyr Gly Leu Pro Val Val Ala Ala Arg Lys Val Asn Tyr Ser Gln
 740 745 750
 Ile Asp Pro Ala Leu Ser Arg Glu Leu Phe Ile Arg His Ala Leu Val
 755 760 765
 Glu Gly Asp Trp Gln Thr Arg His Ala Phe Phe Arg Glu Asn Leu Lys
 770 775 780
 Leu Arg Ala Glu Val Glu Glu Leu Glu His Lys Ser Arg Arg Arg Asp
 785 790 795 800
 Ile Leu Val Asp Asp Glu Thr Leu Phe Glu Phe Tyr Asp Gln Arg Ile
 805 810 815
 Ser His Asp Val Ile Ser Ala Arg His Phe Asp Ser Trp Trp Lys Lys
 820 825 830
 Ala Ser Lys Glu Thr Pro Asp Leu Leu Asn Phe Glu Lys Ser Met Leu
 835 840 845
 Ile Lys Glu Gly Ala Glu Ser Val Ser Lys Leu Asp Tyr Pro Asn Phe
 850 855 860
 Trp His Gln Gly Asn Leu Lys Leu Arg Leu Thr Tyr Gln Phe Glu Pro
 865 870 875 880
 Gly Ala Asp Ala Asp Gly Val Thr Val His Ile Pro Leu Pro Leu Leu
 885 890 895
 Asn Gln Val Asp Glu Ser Gly Phe Glu Trp Gln Ile Pro Gly Leu Arg
 900 905 910
 Arg Glu Leu Val Ile Ala Leu Ile Lys Ser Leu Pro Lys Pro Val Arg
 915 920 925
 Arg Asn Phe Val Pro Ala Pro Asn Tyr Ala Glu Ala Phe Leu Gly Arg
 930 935 940
 Val Thr Ser Leu Glu Leu Pro Leu Leu Asp Ala Leu Glu Arg Glu Phe
 945 950 955 960
 Arg Arg Met Thr Gly Thr Thr Ile Asp Arg Asp Asp Trp Asn Trp Asp
 965 970 975
 Gln Val Pro Asp His Leu Lys Ile Thr Phe Arg Val Val Asp Asp Lys
 980 985 990
 Asn Lys Lys Leu Met Glu Gly Arg Ser Leu Ser Glu Leu Lys Asp Ala
 995 1000 1005
 Leu Lys Gly Lys Val Gln Glu Thr Leu Ser Ala Val Ala Asp Asp Gly
 1010 1015 1020
 Ile Glu Gln Ser Gly Leu His Ile Trp Ser Phe Gly Gln Leu Pro Glu
 1025 1030 1035 1040
 Ser Tyr Glu Gln Lys Arg Gly Asn Tyr Lys Val Lys Ala Trp Pro Ala
 1045 1050 1055
 Leu Val Asp Glu Arg Asp Ser Val Ala Ile Lys Leu Phe Asp Asn Pro
 1060 1065 1070
 Gln Glu Gln Gln Gln Met Met Trp Arg Gly Leu Arg Arg Leu Leu Leu
 1075 1080 1085
 Leu Asn Ile Pro Ser Pro Ile Lys Tyr Leu His Glu Lys Leu Pro Asn
 1090 1095 1100
 Lys Ala Lys Leu Gly Leu Tyr Phe Asn Pro Tyr Gly Lys Val Leu Asp
 1105 1110 1115 1120
 Leu Ile Asp Asp Cys Ile Ser Cys Gly Val Asp Lys Leu Ile His Glu
 1125 1130 1135
 Ala Gly Gly Pro Val Trp Thr Glu Glu Gly Phe Ala Gln Leu His Glu
 1140 1145 1150
 Lys Val Arg Ala Glu Leu Asn Asp Thr Val Val Glu Ile Ala Lys Gln
 1155 1160 1165
 Val Glu Gln Ile Leu Thr Ala Val Phe Asn Ile Asn Lys Arg Leu Lys
 1170 1175 1180
 Gly Arg Val Asp Met Thr Met Ala Leu Gly Leu Ser Asp Val Lys Ala
 1185 1190 1195 1200
 Gln Met Ala Gly Leu Val Tyr Arg Gly Phe Val Thr Gly Asn Gly Phe

```
<210> 10191
<211> 354
<212> PRT
<213> Enterobacter cloacae
```

<400>	10191															
Arg	Asn	Ala	Leu	Ser	Gly	Tyr	Ser	Thr	Met	Lys	Lys	Ile	Gly	Phe	Leu	
1			5						10					15		
Ser	Phe	Gly	His	Trp	Thr	Pro	Ser	Pro	Gln	Ser	Gly	Thr	Arg	Thr	Ala	
			20					25					30			
Ala	Asp	Thr	Leu	Leu	Gln	Ser	Ile	Asp	Leu	Val	Val	Ala	Ala	Glu	Glu	
		35					40					45				
Leu	Gly	Ala	Asp	Gly	Ala	Tyr	Phe	Arg	Val	His	His	Phe	Ala	Arg	Gln	
	50					55				60						
Leu	Ser	Ser	Pro	Phe	Pro	Leu	Leu	Ala	Ala	Ile	Gly	Ala	Lys	Thr	Lys	
65					70					75					80	
Arg	Ile	Glu	Ile	Gly	Thr	Gly	Val	Ile	Asp	Met	Arg	Tyr	Glu	Asn	Pro	
			85						90					95		
Leu	Tyr	Met	Ala	Glu	Asp	Ala	Gly	Ala	Ala	Asp	Leu	Ile	Ser	Gly	Gly	
			100					105					110			
Arg	Leu	Gln	Leu	Gly	Ile	Ser	Arg	Gly	Ser	Pro	Glu	Gln	Val	Ile	Asp	
		115					120					125				
Gly	Trp	Arg	Tyr	Phe	Gly	Tyr	Val	Pro	Gln	Glu	Gly	Glu	Thr	Glu	Ser	
	130					135					140					
Asp	Met	Ala	Arg	Arg	His		Glu	Val	Leu	Leu	Asp	Val	Leu	Arg	Gly	
145					150					155					160	
Glu	Gly	Phe	Ala	Lys	Pro	Asn	Pro	Gln	Pro	Met	Phe	Pro	Asn	Pro	Pro	
			165						170					175		
Gly	Leu	Leu	Arg	Leu	Glu	Pro	His	Ser	Glu	Gly	Leu	Arg	Asp	Arg	Ile	
			180					185					190			
Trp	Trp	Gly	Ala	Gly	Ser	Asn	Ala	Thr	Ala	Val	Trp	Ala	Ala	Lys	Leu	
		195					200					205				
Gly	Met	Asn	Leu	Gln	Ser	Ser	Thr	Leu	Lys	Asp	Asp	Glu	Thr	Gly	Glu	
	210					215					220					
Pro	Phe	His	Ile	Gln	Gln	Ala	Lys	Gln	Ile	Arg	Ala	Tyr	Arg	Gln	Ala	
225					230					235					240	
Trp	Ala	Glu	Ala	Gly	His	Thr	Arg	Gln	Pro	Arg	Val	Ser	Val	Ser	Arg	
			245						250					255		
Ser	Ile	Phe	Ala	Leu	Met	Asp	Glu	Arg	Asp	Arg	Met	Tyr	Phe	Gly	Ser	
			260					265					270			
Ser	Arg	Asn	Glu	Ser	Asp	Ser	Val	Gly	Tyr	Leu	Asp	Glu	Lys	Thr	Arg	
		275					280					285				
Ala	Ile	Phe	Gly	Arg	Ser	Tyr	Ala	Ala	Glu	Pro	Asp	Lys	Leu	Ile	Glu	
	290					295					300					
Gln	Leu	Lys	Lys	Asp	Glu	Ala	Ile	Ala	Glu	Ala	Asp	Thr	Leu	Leu	Leu	

```
<210> 10192
<211> 430
<212> PRT
<213> Enterobacter cloacae
```

<400>	10192															
Arg	Gln	Pro	Leu	Lys	Cys	Phe	Thr	Ile	Ala	Leu	Ser	Leu	Phe	Arg	Ser	
1				5					10					15		
Ser	Lys	Ile	Arg	Glu	Tyr	Glu	Val	Val	Ala	Asp	Ser	Gln	Pro	Gly	His	
			20					25					30			
Ile	Asp	Gln	Ile	Lys	Gln	Thr	Asn	Ala	Gly	Ala	Val	Tyr	Arg	Leu	Ile	
			35				40					45				
Asp	Gln	Leu	Gly	Pro	Val	Ser	Arg	Ile	Asp	Leu	Ser	Arg	Leu	Ala	Gln	
			50			55					60					
Leu	Ala	Pro	Ala	Ser	Ile	Thr	Lys	Ile	Val	Arg	Glu	Met	Leu	Glu	Ala	
65					70					75					80	
His	Leu	Val	Gln	Glu	Thr	Glu	Ile	Gln	Glu	Pro	Gly	Ser	Arg	Gly	Arg	
				85					90					95		
Pro	Ala	Val	Gly	Leu	Val	Val	Glu	Thr	Glu	Ala	Trp	His	Tyr	Leu	Ser	
			100					105					110			
Leu	Arg	Ile	Ser	Arg	Gly	Glu	Ile	Phe	Leu	Ala	Leu	Arg	Asp	Leu	Ser	
			115				120					125				
Ser	Lys	Leu	Val	Val	Glu	Asp	Arg	Leu	Glu	Leu	Pro	Leu	Asn	Ala	Glu	
			130			135					140					
Gln	Pro	Leu	Leu	Asp	Ala	Ile	Leu	Thr	His	Ile	Asp	Gln	Phe	Phe	Ile	
145					150					155					160	
Arg	His	Gln	Gln	Arg	Leu	Glu	Arg	Leu	Thr	Ala	Ile	Ala	Ile	Thr	Leu	
				165					170					175		
Pro	Gly	Ile	Ile	Asp	Thr	Glu	Asn	Gly	Ile	Val	His	Arg	Met	Pro	Phe	
			180					185					190			
Tyr	Glu	Asn	Val	Lys	Glu	Met	Pro	Leu	Gly	Asp	Val	Leu	Glu	Asn	His	
			195				200					205				
Thr	Gly	Val	Pro	Val	Tyr	Ile	Gln	His	Asp	Ile	Ser	Ala	Trp	Thr	Met	
			210			215						220				
Ala	Glu	Ala	Leu	Phe	Gly	Ala	Ser	Arg	Gly	Ala	Arg	Asp	Val	Ile	Gln	
225					230					235					240	
Val	Val	Ile	Asp	His	Asn	Val	Gly	Ala	Gly	Val	Ile	Thr	Asp	Gly	Arg	
				245					250					255		
Leu	Leu	His	Ala	Gly	Ser	Ser	Ser	Leu	Val	Glu	Ile	Gly	His	Thr	Gln	
			260					265					270			
Val	Asp	Pro	Tyr	Gly	Lys	Arg	Cys	Tyr	Cys	Gly	Asn	His	Gly	Cys	Leu	
			275				280					285				
Glu	Thr	Ile	Ala	Ser	Val	Glu	Ser	Val	Leu	Glu	Leu	Ala	Gln	Val	Arg	
			290			295					300					
Leu	Thr	Gln	Ser	Met	Ser	Ser	Thr	Leu	His	Gly	Gln	Pro	Leu	Ser	Val	
305					310					315					320	
Glu	Ala	Leu	Cys	Ala	Ala	Ala	Arg	Gln	Gly	Asp	Leu	Leu	Ala	Lys	Asp	
				325					330					335		
Ile	Ile	Thr	Gly	Val	Gly	Asn	Asn	Val	Gly	Arg	Ile	Leu	Ala	Ile	Met	
			340					345					350			
Val																

370 375 380
 Gln Ala Leu Pro Ala Tyr Ser Lys Asn Ile Val Val Glu Ser Thr Gln
 385 390 395 400
 Phe Ser Asn Gln Gly Thr Met Ala Gly Ala Ala Leu Val Lys Asp Ala
 405 410 415
 Met Tyr Asn Gly Ser Leu Leu Ile Arg Leu Leu Gln Gly
 420 425 430

<210> 10193

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 10193

Val Met Leu Lys Arg Phe Phe Ile Thr Gly Thr Asp Thr Ser Val Gly
 1 5 10 15
 Lys Thr Val Val Ser Arg Ala Leu Leu Gln Ala Leu Ala Ala Ser Gly
 20 25 30
 Lys Arg Val Ala Gly Tyr Lys Pro Val Ala Lys Gly Ser Lys Glu Thr
 35 40 45
 Pro Glu Gly Leu Arg Asn Lys Asp Ala Leu Val Leu Gln Ser Val Ser
 50 55 60
 Ser Leu Glu Leu Pro Tyr Asp Ala Val Asn Pro Ile Ala Leu Ser Glu
 65 70 75 80
 Glu Glu Ser Ser Val Ala His Ser Gly Leu Ile Asn Tyr Ser Leu Leu
 85 90 95
 Ser Asp Gly Leu Ala Asn Leu Ser Glu Lys Val Asp His Val Val Val
 100 105 110
 Glu Gly Thr Gly Gly Trp Arg Ser Leu Met Asn Asp Leu Arg Pro Leu
 115 120 125
 Ser Glu Trp Val Val Gln Glu Gln Leu Pro Val Ile Met Val Val Gly
 130 135 140
 Ile Gln Glu Gly Cys Ile Asn His Ala Leu Leu Thr Ala Gln Ala Ile
 145 150 155 160
 Ala Asn Asp Gly Leu Pro Leu Ile Gly Trp Val Ala Asn Arg Val Asn
 165 170 175
 Pro Gly Leu Ala His Tyr Ala Glu Ile Ile Asp Val Leu Ser Lys Lys
 180 185 190
 Leu Pro Gly Pro Leu Val Gly Glu Leu Pro Tyr Leu Pro Arg Ala Glu
 195 200 205
 Gln Arg Glu Leu Ala His Tyr Ile Asp Leu Ser Ala Phe Gly Gly Met
 210 215 220
 Leu Ala Val Gly Arg Val Val Ala
 225 230

<210> 10194

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 10194

Ile Asn Pro His Glu Thr Arg Lys Met Phe Lys Thr Thr Leu Leu Phe
 1 5 10 15
 Phe Ala Thr Ala Leu Cys Glu Ile Ile Gly Cys Phe Leu Pro Trp Leu
 20 25 30
 Trp Leu Lys Arg Gly Ala Ser Ala Leu Leu Leu Ile Pro Ala Gly Val
 35 40 45
 Ser Leu Ala Leu Phe Val Trp Leu Leu Thr Leu His Pro Ala Ala Ser
 50 55 60
 Gly Arg Val Tyr Ala Ala Tyr Gly Gly Val Tyr Val Cys Thr Ala Leu
 65 70 75 80

Leu Trp Leu Arg Val Val Asp Gly Val Arg Leu Ser Leu Tyr Asp Trp
 85 90 95
 Ala Gly Ala Leu Ile Ala Leu Cys Gly Met Leu Ile Ile Val Ala Gly
 100 105 110
 Trp Gly Arg Ala
 115

<210> 10195

<211> 418

<212> PRT

<213> Enterobacter cloacae

<400> 10195

Ile Ser Cys Ile Thr Thr Ser Asp Val Arg Lys Trp Ile Met Lys Ile
 1 5 10 15
 Val Gly Ala Glu Val Phe Val Thr Cys Pro Gly Arg Asn Phe Val Thr
 20 25 30
 Leu Lys Ile Thr Thr Asp Glu Gly Ile Val Gly Leu Gly Asp Ala Thr
 35 40 45
 Leu Asn Gly Arg Glu Leu Ser Val Ala Ser Tyr Leu Lys Asp His Leu
 50 55 60
 Cys Pro Gln Leu Ile Gly Arg Asp Ala His Arg Ile Glu Asp Ile Trp
 65 70 75 80
 Gln Phe Phe Tyr Lys Gly Ala Tyr Trp Arg Arg Gly Pro Val Thr Met
 85 90 95
 Ser Ala Ile Ser Ala Val Asp Met Ala Leu Trp Asp Ile Lys Ala Lys
 100 105 110
 Ala Ala Asn Met Pro Leu Tyr Gln Leu Leu Gly Gly Ala Ser Arg Glu
 115 120 125
 Gly Val Met Val Tyr Cys His Thr Thr Gly His Thr Ile Asp Asp Val
 130 135 140
 Leu Glu Asp Tyr Ala Arg His Lys Glu Met Gly Phe Lys Ala Ile Arg
 145 150 155 160
 Val Gln Cys Gly Val Pro Gly Met Lys Thr Thr Tyr Gly Met Ala Lys
 165 170 175
 Gly Lys Gly Leu Ala Tyr Glu Pro Ala Thr Lys Gly Ala Trp Pro Glu
 180 185 190
 Glu Gln Leu Trp Ser Thr Glu Lys Tyr Leu Asp Phe Thr Pro Lys Leu
 195 200 205
 Phe Asp Ala Val Arg Ser Gln Phe Gly Phe Ser Glu His Leu Leu His
 210 215 220
 Asp Met His His Arg Leu Thr Pro Ile Glu Ala Ala Arg Phe Gly Lys
 225 230 235 240
 Ser Ile Glu Asp Tyr Arg Leu Phe Trp Met Glu Asp Pro Thr Pro Ala
 245 250 255
 Glu Asn Gln Glu Cys Phe Arg Leu Ile Arg Gln His Thr Val Thr Pro
 260 265 270
 Ile Ala Val Gly Glu Val Phe Asn Ser Ile Trp Asp Cys Lys Gln Leu
 275 280 285
 Ile Glu Glu Gln Leu Ile Asp Tyr Ile Arg Ala Thr Ile Thr His Ala
 290 295 300
 Gly Gly Ile Thr Gly Met Arg Arg Ile Ala Asp Phe Ala Ser Leu Tyr
 305 310 315 320
 Gln Val Arg Thr Gly Ser His Gly Pro Ser Asp Leu Ser Pro Ile Cys
 325 330 335
 His Ala Ala Ala Leu His Phe Asp Leu Trp Val Pro Asn Phe Gly Val
 340 345 350
 His Glu Tyr Met Gly Tyr Ser Glu His Met Leu Glu Val Phe Pro His
 355 360 365
 Ser Trp Arg Phe Asp Asn Gly Tyr Met His Pro Gly Asp Lys Pro Gly
 370 375 380

Leu Gly Ile Glu Phe Asp Glu Lys Leu Ala Ala Lys Tyr Pro Tyr Asp
 385 390 395 400
 Pro Ala Tyr Leu Pro Val Ala Arg Leu Glu Asp Gly Thr Leu Trp Asn
 405 410 415
 Trp

<210> 10196

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 10196

Glu Pro Ala Lys Thr Gly Ser Lys Trp Tyr Ala Ser Tyr Leu Ser Glu
 1 5 10 15
 Ile Ala Ile Met Thr Gln Ala Gln Pro Gln Arg Ser Thr Ser Asp Leu
 20 25 30
 Val Lys Ala Ala Val Ser Gly Trp Leu Gly Thr Ala Leu Glu Phe Met
 35 40 45
 Asp Phe Gln Leu Tyr Ser Leu Gly Ala Ala Leu Val Phe His Glu Ile
 50 55 60
 Phe Phe Pro Glu Gln Ser Ala Ala Met Ala Leu Ile Leu Ala Met Gly
 65 70 75 80
 Thr Tyr Gly Ala Gly Tyr Ile Ala Arg Ile Val Gly Ala Phe Ile Phe
 85 90 95
 Gly Arg Met Gly Asp Arg Ile Gly Arg Lys Lys Val Leu Phe Ile Thr
 100 105 110
 Ile Thr Met Met Gly Ile Cys Thr Thr Leu Ile Gly Val Leu Pro Thr
 115 120 125
 Tyr Ala Gln Ile Gly Ile Phe Ala Pro Val Leu Leu Val Thr Leu Arg
 130 135 140
 Ile Ile Gln Gly Leu Gly Ala Gly Ala Glu Ile Ser Gly Ala Gly Thr
 145 150 155 160
 Met Leu Ala Glu Tyr Ala Pro Lys Gly Lys Arg Gly Ile Ile Ser Ser
 165 170 175
 Leu Val Ala Met Gly Thr Asn Cys Gly Thr Leu Ser Ala Thr Ala Ile
 180 185 190
 Trp Ala Val Met Phe Phe Ala Leu Asp Arg Glu Glu Leu Ile Ala Trp
 195 200 205
 Gly Trp Arg Val Pro Phe Leu Ala Ser Val Val Val Met Ile Phe Ala
 210 215 220
 Ile Trp Leu Arg Met Asn Leu Lys Glu Ser Pro Val Phe Glu Lys Val
 225 230 235 240
 Asn Asp Ala Glu Thr Val Ala Pro Ala Ala Gln Asp Thr Ser Leu
 245 250 255
 Gly Ala Met Phe Lys Ser Lys Ser Phe Trp Leu Ala Thr Gly Leu Arg
 260 265 270
 Phe Gly Gln Ala Gly Asn Ser Gly Leu Ile Gln Thr Phe Leu Ala Gly
 275 280 285
 Tyr Leu Val Gln Thr Leu Leu Phe Asp Lys Ala Ile Pro Thr Asp Ala
 290 295 300
 Leu Met Ile Ser Ser Ile Leu Gly Phe Leu Thr Ile Pro Leu Leu Gly
 305 310 315 320
 Trp Leu Ser Asp Lys Val Gly Arg Arg Leu Pro Tyr Ile Leu Leu Asn
 325 330 335
 Ile Ser Ala Ile Ile Leu Ala Tyr Pro Met Leu Ser Ile Ile Val Asp
 340 345 350
 Lys Ser Tyr Ala Pro Gly Val Ile Met Leu Ser Ile Ile Val Ile His
 355 360 365
 Asn Phe Ala Val Leu Gly Leu Phe Ala Leu Glu Asn Ile Thr Met Ala
 370 375 380

Glu Met Phe Gly Ser Arg Asn Arg Phe Thr Arg Met Ala Ile Ser Lys
 385 390 395 400
 Glu Ala Gly Gly Leu Val Ala Val Gly Phe Gly Pro Val Leu Ala Gly
 405 410 415
 Ile Phe Cys Asn Met Thr Gly Ser Trp Trp Pro Ile Val Ala Met Leu
 420 425 430
 Val Ala Tyr Ser Leu Ile Gly Leu Val Ser Ala Leu Leu Met Pro Glu
 435 440 445
 Val Arg Asp Arg Asp Leu Ser Glu Ala Glu Asp Ala Ala Glu Ala Pro
 450 455 460
 His Lys Glu Ala Val Ala Tyr Gly Ala Leu Ser Ser Arg Arg
 465 470 475

<210> 10197

<211> 492

<212> PRT

<213> Enterobacter cloacae

<400> 10197

Arg Val Ser Ile Met Glu Asn Gln Leu Leu Gln Ala Lys Ala Thr Arg
 1 5 10 15
 Pro Gln Tyr Asp Arg Asp Ser Leu Lys Ala Arg Ile Val His Leu Gly
 20 25 30
 Phe Gly Ala Phe His Arg Ala His Gln Ala Val Tyr Thr Asp Ile Leu
 35 40 45
 Ala Ala Glu Gln Gly Ser Asp Trp Gly Tyr Cys Glu Val Asn Leu Ile
 50 55 60
 Gly Gly Glu Gln Gln Ile Ala Asp Leu Lys Ala Gln Asp Asn Leu Tyr
 65 70 75 80
 Thr Val Ala Glu Met Ser Ala Asp Ala Trp Thr Ala Arg Val Val Gly
 85 90 95
 Val Val Lys Asn Ala Leu His Ala Gln Val Asp Gly Leu Glu Thr Val
 100 105 110
 Leu Ala Ala Leu Cys Glu Pro Gln Val Ala Ile Val Ser Leu Thr Ile
 115 120 125
 Thr Glu Lys Gly Tyr Cys His Ser Pro Ala Thr Gly Gln Leu Met Phe
 130 135 140
 Asp His Pro Leu Ile Val Ala Asp Leu Gln Asn Pro His Gln Pro Lys
 145 150 155 160
 Ser Ala Pro Gly Val Val Val Glu Ala Leu Ala Arg Arg Lys Ala Ala
 165 170 175
 Gly Leu Pro Ala Phe Ser Val Met Ser Cys Asp Asn Met Pro Glu Asn
 180 185 190
 Gly His Val Met Arg Asn Val Thr Cys Ala Tyr Ala Arg Ala Val Asp
 195 200 205
 Gly Glu Leu Ala Asp Trp Ile Glu Ala Asn Val Thr Phe Pro Ser Thr
 210 215 220
 Met Val Asp Arg Ile Val Pro Ala Val Thr Ala Asp Thr Leu Asp Lys
 225 230 235 240
 Ile Glu Gln Leu Thr Gly Val Arg Asp Pro Ala Gly Val Ala Cys Glu
 245 250 255
 Pro Phe Arg Gln Trp Val Val Glu Asp Asn Phe Val Ala Gly Arg Pro
 260 265 270
 Lys Trp Glu Lys Ala Gly Ala Glu Leu Val Ser Asp Val Ile Pro Phe
 275 280 285
 Glu Glu Met Lys Leu Arg Met Leu Asn Gly Ser His Ser Phe Leu Ala
 290 295 300
 Tyr Leu Gly Tyr Leu Ala Gly Tyr Gln His Ile Asn Asp Cys Met Glu
 305 310 315 320
 Asp Glu His Tyr Arg Ala Ala Ala His Ala Leu Met Leu Lys Glu Gln
 325 330 335

Ala Pro Thr Leu Lys Val Lys Gly Val Asp Leu Ala His Tyr Ala Asp
 340 345 350
 Leu Leu Ile Ala Arg Tyr Ser Asn Pro Thr Leu Arg His Arg Thr Trp
 355 360 365
 Gln Ile Ala Met Asp Gly Ser Gln Lys Leu Pro Gln Arg Met Leu Asp
 370 375 380
 Ser Val Arg Trp His Leu Val His Gln Lys Pro Phe Pro Leu Leu Ala
 385 390 395 400
 Leu Gly Val Ala Gly Trp Met Arg Tyr Val Gly Gly Val Asp Glu Gln
 405 410 415
 Gly Asn Pro Ile Glu Val Ser Asp Pro Gln Leu Ala Val Ile Gln Ala
 420 425 430
 Ala Val Asn Gly Ser Ala Glu Gly Glu Ser Arg Val Asn Ala Leu Leu
 435 440 445
 Gly Ile Glu Ala Ile Phe Gly Asn Glu Leu Pro Lys Asp Ala Val Phe
 450 455 460
 Val Ala Ser Val Met Gln Ala Tyr Gln Thr Leu Leu Gln Lys Gly Ala
 465 470 475 480
 Lys Ala Thr Val Ala Glu Tyr Ala Thr Arg Leu
 485 490

<210> 10198 .

<211> 716

<212> PRT

<213> Enterobacter cloacae

<400> 10198

Ala Ala Ile Pro Pro Val Thr Thr Ile Ala Ser Glu Ala Glu Glu Pro
 1 5 10 15
 Pro Val His Asn Asp Lys His Tyr Pro Phe Ile Lys Val Ser Met Thr
 20 25 30
 Ala Leu Ala Leu Leu Val Ala Pro Leu Ala Leu Gln Ala Gln Asp Lys
 35 40 45
 Ala Thr Glu Ala Ser Gln Gly Thr Gln Glu Ser Leu Asn Ile Asp Ala
 50 55 60
 Ala Asp Gln Gln Ala Pro Gly Thr Thr Lys Thr Thr Asp Asp Ala Ser
 65 70 75 80
 Thr Gly Ser Gly Asp Gly Lys Asn Val Ala Ser Ala Ser Gln Pro Ala
 85 90 95
 Thr Pro Leu Val Pro Gly Thr Pro Thr Trp Asp Ser Phe His Gly Gln
 100 105 110
 Leu Asn Ala Gln Lys Tyr Ser Pro Leu Thr Gln Ile Thr Ala Asp Asn
 115 120 125
 Val Gly Lys Leu Thr Lys Val Trp Glu Phe His Thr Gly Asp Val Ser
 130 135 140
 Asp Gly Lys Gly Asp Thr Pro Ala Thr Val Trp Ser Ala Thr Pro Ile
 145 150 155 160
 Phe Ala Asn Asp Thr Leu Tyr Ile Gly Thr Pro Phe Asp Arg Leu Ile
 165 170 175
 Ala Leu Asp Pro Gly Thr Gly Lys Glu Lys Trp His Tyr Asp Thr Lys
 180 185 190
 Ser Ser Arg Lys Ala Leu Thr Gln Pro Val Leu Lys Asn Arg Gly Val
 195 200 205
 Ser Tyr Trp Gln Ala Lys Asn Pro Val Ser Gly Glu Ala Cys Gln Lys
 210 215 220
 Met Val Tyr Met Gly Thr Val Asp Gly Lys Leu Phe Ala Leu Asp Ala
 225 230 235 240
 Asp Ser Gly Lys Pro Cys Ser Gly Phe Ala Asn Asn Gly Val Leu Asp
 245 250 255
 Leu Asn Gln Trp Asn Thr Val Asn Ala Lys Tyr Pro Leu Ser Val Leu
 260 265 270

Gln Pro Pro Thr Val Val Gly Asn His Leu Leu Val Gly Trp Ala Gly
 275 280 285
 Lys Asp Trp Ala Tyr Ala Glu Ala Pro Pro Gly Thr Val Phe Ser Val
 290 295 300
 Asn Ala Gln Thr Gly Lys Leu Glu Trp Thr Phe Glu Ala Ile Pro Ala
 305 310 315 320
 Glu Ile Arg Lys Arg Thr Gly Thr Ala Asn Val Trp Thr His Met Ser
 325 330 335
 Ala Asp Glu Ala Asn Gly Leu Val Tyr Leu Pro Val Ser Ser Pro Ser
 340 345 350
 Pro Asn Tyr Trp Gly Gly Asn Arg Val Asp Ala Ile Pro Leu Gly Thr
 355 360 365
 Ser Thr Thr Ala Leu Asp Ile Asn Thr Gly Lys Val Val Trp Ser Arg
 370 375 380
 Gln Trp Val His His Asp Val Trp Asp Tyr Asp Ile Asn Ser Ala Pro
 385 390 395 400
 Thr Leu Met Asp Ile Thr Val Asp Gly Lys Gln Ile Pro Ala Leu Ile
 405 410 415
 Gln Ala Thr Lys Gln Gly Phe Leu Phe Val Val Asn Arg Leu Thr Gly
 420 425 430
 Glu Asp Val Trp Pro Ile Glu Glu Arg Pro Val Pro Gln Gly Asp Gly
 435 440 445
 Ser Val Gln Gly Glu Val Leu Ser Pro Thr Gln Pro Phe Pro Thr Lys
 450 455 460
 Pro Ala Pro Leu Leu Asp Gln Ser Lys Lys Pro Glu Ile Trp Lys Leu
 465 470 475 480
 Ala Asp Ile Val Gly Gly Gly Gln Cys Ser Arg Leu Trp Asp Asn Leu
 485 490 495
 Thr Tyr Glu Gly Met Tyr Thr Pro Pro Thr Thr Lys Gly Glu Gly Thr
 500 505 510
 Leu Thr Tyr Pro Asp Ser Ala Gly Gly Val Gln Trp Gly Gly Val Ala
 515 520 525
 Phe Asp Pro Gln Lys Gln Ile Ala Ile Val Asn Thr Ser His Ile Val
 530 535 540
 Gln Tyr Val Lys Leu Tyr Ser Arg Glu Asp Tyr Asp Asn Ala Asp Lys
 545 550 555 560
 Asp Ser Gly Asn Glu Ser Gly Phe Ala Pro Gln Glu Gly Ala Pro Tyr
 565 570 575
 Gly Met Arg Leu Leu Val Ala Ser Asn Trp Leu Gly Met Pro Cys Trp
 580 585 590
 Gln Pro Pro Phe Gly Glu Ile Val Ala Leu Asp Met His Thr Gly Asp
 595 600 605
 Val Lys Trp Arg Arg Pro Val Gly Ala Ser Gln Gln Tyr Gly Phe Phe
 610 615 620
 Met Pro Glu Ser Trp Gly Ser Pro Thr Ile Gly Gly Pro Ala Val Thr
 625 630 635 640
 Ala Gly Gly Val Ile Phe Ile Gly Ala Ser Met Asp Ala Lys Val Arg
 645 650 655
 Ala Tyr Ser Val Glu Ser Gly Glu Glu Leu Trp Ser Asp Gln Ala Glu
 660 665 670
 Ala Pro Ala Val Ala Asn Pro Ser Val Tyr Glu Tyr Lys Gly Arg Gln
 675 680 685
 Tyr Val Ala Phe Val Ala Gly Gly Asn Thr Ile Leu Lys Asp Gln Val
 690 695 700
 Gly Asp Gln Val Val Val Tyr Ala Leu Pro Glu
 705 710 715

<210> 10199

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10199

Gly Thr Thr Met Lys Lys Arg Ala Gly Val Leu Thr Val Ala Val Val
 1 5 10 15
 Ala Leu Leu Ser Gly Cys Thr Pro Arg Ile Glu Val Ala Ala Pro Lys
 20 25 30
 Glu Pro Ile Thr Ile Asn Met Asn Val Lys Ile Glu His Glu Ile His
 35 40 45
 Ile Lys Val Asp Lys Asp Val Glu Ala Leu Leu Lys Ser Arg Ser Asp
 50 55 60
 Leu Phe
 65

<210> 10200

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 10200

Glu Gly Ala Thr Tyr Arg Thr Pro Arg Ala Asp Ala Gly Arg Asp Ala
 1 5 10 15
 Val Ser Pro Ala Arg Leu Pro Arg Pro Ala Val Val Lys Glu Asp Ala
 20 25 30
 Met Gln Arg Leu Val Asp Ile Ala Pro Ala Gln Ile Pro Gln Ile Trp
 35 40 45
 Ala Leu Leu Ser Gln Ile Pro Asp Pro Glu Val Pro Val Leu Thr Ile
 50 55 60
 Thr Asp Leu Gly Met Val Arg Ser Val Lys Ala Gln Gly Glu Gly Trp
 65 70 75 80
 Val Ile Gly Phe Thr Pro Thr Tyr Ser Gly Cys Pro Ala Thr Glu His
 85 90 95
 Leu Leu Gly Ala Ile Arg Glu Thr Leu Thr Gly Asn Gly Phe Ser Pro
 100 105 110
 Val His Ile Val Leu Gln Leu Glu Pro Ala Trp Thr Thr Asp Trp Met
 115 120 125
 Thr Asp Asp Ala Arg Arg Arg Leu Arg Glu Tyr Gly Ile Ser Pro Pro
 130 135 140
 Val Gly His Ser Cys His Ala His Val Pro Ala Glu Val Ser Cys Pro
 145 150 155 160
 Arg Cys Ala Ser Thr Asp Thr Ser Leu Ile Ser Glu Phe Gly Ser Thr
 165 170 175
 Ala Cys Lys Ala Leu Tyr Arg Cys Asn Thr Cys Arg Glu Pro Phe Asp
 180 185 190
 Tyr Phe Lys Cys Ile
 195

<210> 10201

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 10201

Cys Glu Gly Asp Gly Met Ser Glu Leu Ile Val Thr Arg His Gly Arg
 1 5 10 15
 Val Leu Gln Leu Thr Leu Asn Arg Pro Ala Ala Arg Asn Ala Leu Asn
 20 25 30
 Asn Ala Leu Leu Leu Gln Ile Ala Glu Gln Leu Glu Ala Ala Ala Ala
 35 40 45
 Asp Ala Glu Ile Ala Val Cys Val Met Tyr Gly Asn Glu Arg Cys Phe
 50 55 60
 Ala Ala Gly Ala Asp Leu Asn Glu Met Ala Glu Lys Asp Leu Pro Ala

65 70 75 80
 Thr Leu Asn Asp Ile Arg Pro Gln Leu Trp Ala Arg Ile Asn Ala Phe
 85 90 95
 Thr Lys Pro Leu Ile Ala Ala Val Asn Gly Phe Ala Leu Gly Ala Gly
 100 105 110
 Cys Glu Leu Ala Leu Cys Asp Val Val Ile Ala Gly Asp Asn Ala
 115 120 125
 Arg Phe Gly Leu Pro Glu Ile Thr Ile Gly Ile Met Pro Gly Ala Gly
 130 135 140
 Gly Thr Gln Arg Leu Ile Arg Ser Val Gly Lys Ser Leu Ala Ser Lys
 145 150 155 160
 Met Val Leu Thr Gly Glu Ser Ile Thr Ala Val Gln Ala His Ser Ala
 165 170 175
 Gly Leu Val Ser Asp Val Tyr Pro Ala Ser Leu Thr Leu Glu Tyr Ala
 180 185 190
 Leu Lys Gln Ala Ala Leu Met Ala Arg His Ser Pro Leu Ala Leu Gln
 195 200 205
 Ala Ala Lys Gln Ala Leu Arg Gln Ser Gln Glu Val Pro Leu Gln Ala
 210 215 220
 Gly Leu Ala Gln Glu Arg Gln Leu Phe Ala Leu Leu Ala Ala Thr Asp
 225 230 235 240
 Asp Arg Arg Glu Gly Ile Asn Ala Phe Leu Gln Lys Arg Thr Pro Asp
 245 250 255
 Phe Lys Gly Arg
 260

<210> 10202

<211> 527

<212> PRT

<213> *Enterobacter cloacae*

<400> 10202

Ser Ser Arg Arg 5 Thr Pro Pro Lys Pro Thr Pro Ser Thr Pro Ser
 1 10 15
 Leu Ile Trp Ser Ala Thr Ile Asn Ala Trp Pro Asp Ala Ala Thr Thr
 20 25 30
 Thr Gly Lys Ala Ser Ala Arg Ser Trp Gln Asn Ala Arg Arg Thr Leu
 35 40 45
 Arg Gly Asn Asn Met Val Asn Ile His Thr Val Ala Val Ile Gly Ser
 50 55 60
 Gly Thr Met Gly Ala Gly Ile Ala Glu Val Ala Ala Ser His Gly His
 65 70 75 80
 Pro Val Leu Val Tyr Asp Ile Asp Ala Ala Ala Ile Ser Arg Ala Val
 85 90 95
 Asp Gly Ile Arg Gln Arg Leu Ser Ser Arg Val Ala Arg Gly Lys Leu
 100 105 110
 Ser Ala Asp Ala Gly Glu Gln Ile Leu Ala Arg Leu Thr Pro Val Thr
 115 120 125
 Asn Ile Ser Ala Leu Ala Lys Ala Asp Leu Val Ile Glu Ala Ala Ser
 130 135 140
 Glu Arg Leu Glu Val Lys Lys Ala Leu Phe Thr Gln Leu Ala Glu Val
 145 150 155 160
 Cys Pro Pro Gln Thr Leu Leu Ala Ser Asn Thr Ser Ser Ile Ser Val
 165 170 175
 Thr Ala Ile Ala Ala Glu Ile Asn His Pro Glu Arg Val Ala Gly Leu
 180 185 190
 His Phe Phe Asn Pro Ala Pro Val Met Lys Leu Val Glu Val Val Ser
 195 200 205
 Gly Leu Ala Thr Ser Pro Glu Val Ala Asp Ala Leu Cys Glu Leu Ala
 210 215 220
 Leu Ser Trp Gly Lys Gln Pro Val Arg Cys Gln Ser Thr Pro Gly Phe

225 230 235 240
 Ile Val Asn Arg Val Ala Arg Pro Phe Tyr Ser Glu Ala Trp Arg Ala
 245 250 255
 Leu Glu Glu Gln Val Ala Thr Pro Glu Val Ile Asp Ala Ala Leu Arg
 260 265 270
 Asp Gly Gly Gly Phe Pro Met Gly Pro Leu Glu Leu Thr Asp Met Ile
 275 280 285
 Gly Gln Asp Val Asn Phe Ala Val Thr Cys Ser Val Phe Asn Ala Phe
 290 295 300
 Trp Gln Glu Arg Arg Phe Leu Pro Ser Leu Val Gln Gln Glu Leu Val
 305 310 315 320
 Leu Ala Gly Arg Leu Gly Lys Lys Ser Gly Gln Gly Val Tyr Arg Trp
 325 330 335
 Leu Glu Asp Lys Pro Ala Val Arg Trp Leu Ala Pro Val Ser Asp Ser
 340 345 350
 Phe Asn Pro Met Arg Val Gln Arg Arg Ser Asp Gly Val Thr Glu Ile
 355 360 365
 Asp Asp Leu Leu Leu Ile Glu Thr Gln Gly Glu Thr Ala Gln Ser Leu
 370 375 380
 Ala Leu Arg His Gly Cys Pro Val Val Val Val Asp Arg Ile Glu Arg
 385 390 395 400
 Asp Val Ala Val Ile Ala Ala Ala Pro Gly Asn Pro His Ala Ala Thr
 405 410 415
 Gln Lys Ala Ile Tyr Cys Leu Gln His Gln Gln Lys Arg Val Val Gln
 420 425 430
 Ile Ala Asp Tyr Pro Gly Leu Leu Val Trp Arg Thr Val Ala Met Ile
 435 440 445
 Ala Asn Glu Ala Leu Asp Ala Leu Gln Lys Gly Val Ala Ser Glu Gln
 450 455 460
 Asp Ile Asp Thr Ala Met Arg Leu Gly Val Asn Tyr Pro Cys Gly Pro
 465 470 475 480
 Ile Ala Trp Gly Glu Arg Leu Gly Trp Gln Arg Leu Leu Thr Leu Leu
 485 490 495
 Glu Asn Leu Gln Arg His Tyr Gly Glu Glu Arg Tyr Arg Pro Cys Ser
 500 505 510
 Leu Leu Arg Gln Arg Ala Leu Leu Glu Ser Ser Tyr Glu Ser
 515 520 525

<210> 10203

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 10203

Asn Ser Glu Pro Thr Thr Glu Asn Arg Arg Ser Phe Ser Arg Glu Ile
 1 5 10 15
 Ala Pro His Arg Arg Gln Tyr Asp Arg Arg Ser Leu Met Arg Asp Ala
 20 25 30
 Phe Ile Cys Glu Gly Val Arg Thr Pro Val Gly Arg Tyr Gly Gly Gly
 35 40 45
 Leu Ser Ser Val Arg Ala Asp Asp Leu Gly Ala Val Pro Leu Arg Ala
 50 55 60
 Leu Leu Ala Arg Tyr Pro Gln Leu Asp Leu Glu Arg Ile Asp Asp Val
 65 70 75 80
 Ile Phe Gly Cys Ala Asn Gln Ala Gly Glu Asp Asn Arg Asn Val Ala
 85 90 95
 Arg Met Ser Ser Leu Leu Ala Gly Leu Pro Gln Thr Val Ser Gly Thr
 100 105 110
 Thr Ile Asn Arg Leu Cys Gly Ser Gly Leu Asp Ala Leu Gly Phe Ala
 115 120 125
 Ala Arg Ala Ile Lys Ala Gly Asp Gly Asp Leu Leu Ile Ala Gly Gly

```

      130                      135                      140
Val Glu Ser Met Ser Arg Ala Pro Phe Val Met Gly Lys Ala Thr Ala
145                      150                      155                      160
Ala Phe Gln Arg Gln Ala Glu Ile Phe Asp Thr Thr Ile Gly Trp Arg
      165                      170                      175
Phe Val Asn Pro Leu Met His Gln Gln Tyr Gly Thr Asp Ser Met Pro
      180                      185                      190
Glu Thr Ala Glu Asn Val Ala Glu Leu Leu Asn Ile Ser Arg Ala Asp
      195                      200                      205
Gln Asp Ala Phe Ala Leu Arg Ser Gln Gln Arg Thr Ala Arg Ala Gln
      210                      215                      220
Gln Asn Gly Val Leu Ala Gln Glu Ile Ile Pro Val Gln Val Ala Gly
225                      230                      235                      240
Lys Lys Gly Ala Val Thr Glu Val Ser Val Asp Glu His Pro Arg Ala
      245                      250                      255
Glu Thr Thr Leu Glu Gln Leu Ala Ala Leu Lys Ala Pro Phe Arg Lys
      260                      265                      270
Asn Gly Val Val Thr Ala Gly Asn Ala Ser Gly Val Asn Asp Gly Ala
      275                      280                      285
Ala Ala Leu Ile Ile Ala Ser Glu Pro Met Ala Leu Ala Gln Gly Leu
      290                      295                      300
Thr Pro Arg Thr Arg Ile Val Ala Met Ala Thr Ala Gly Val Glu Pro
305                      310                      315                      320
Arg Leu Met Gly Leu Gly Pro Val Pro Ala Thr Arg Lys Val Leu Glu
      325                      330                      335
Arg Ala Gly Leu Ser Ile Thr Asp Met Asp Val Ile Glu Leu Asn Glu
      340                      345                      350
Ala Phe Ala Ala Gln Ala Leu Gly Val Leu Arg Gln Leu Gly Leu Pro
      355                      360                      365
Asp Asp Ala Glu His Val Asn Pro Asn Gly Gly Ala Ile Ala Leu Gly
      370                      375                      380
His Pro Leu Gly Met Ser Gly Ala Arg Leu Ala Leu Ala Ala Ser Asn
385                      390                      395                      400
Glu Leu His Arg Arg Gly Gly Arg Tyr Ala Leu Cys Thr Met Cys Ile
      405                      410                      415
Gly Val Gly Gln Gly Ile Ala Met Ile Leu Glu Arg Val
      420                      425                      430

```

<210> 10204

<211> 662

<212> PRT

<213> Enterobacter cloacae

<400> 10204

```

Gly His Ser Met Lys Leu Thr Leu Ile Ala Lys His Leu Ala Leu Ala
1      5      10
Gly Val Leu Thr Ser Leu Ser Leu Ser Phe Ala Glu Val Gln Pro
      20      25      30
Gln Asp Ala Thr Ala Thr Thr Arg Gln Val Asn Asn Ala Leu Tyr Asn
      35      40      45
Lys Leu Pro Phe Ala Asp Lys Thr Asp Phe Glu Asn Ala His Lys Gly
      50      55      60
Phe Ile Ala Pro Leu Pro Gln Asn Met Ile Lys Gly Glu Gln Gly Asn
      65      70      75      80
Val Ile Trp Asn Pro Ala Lys Tyr Asp Phe Val Lys Glu Gly Glu Lys
      85      90      95
Ala Pro Asp Thr Val Asn Pro Ser Leu Trp Arg Gln Ser Gln Leu Ile
      100      105      110
Asn Ile Gly Gly Leu Phe Lys Leu Thr Asp Gly Val Tyr Gln Ile Arg
      115      120      125
Asn Leu Asp Leu Ser Asn Met Thr Ile Ile Glu Gly Glu Lys Gly Ile

```

	130					135					140					
Thr	Val	Ile	Asp	Pro	Leu	Leu	Ser	Ala	Glu	Pro	Ala	Lys	Glu	Ala	Leu	
145					150					155					160	
Asp	Leu	Tyr	Tyr	Ala	Asn	Arg	Gly	Lys	Lys	Pro	Val	Val	Ala	Val	Val	
				165					170					175		
Ile	Thr	His	Ser	His	Val	Asp	His	Tyr	Gly	Gly	Leu	Arg	Gly	Val	Val	
				180					185				190			
Asp	Glu	Ala	Asp	Val	Lys	Ser	Gly	Lys	Val	Lys	Ile	Tyr	Ala	Pro	Asp	
				195			200					205				
Gly	Phe	Met	Lys	Glu	Ala	Val	Ser	Glu	Asn	Ile	Met	Ala	Gly	Asn	Ala	
						215					220					
Met	Ser	Arg	Arg	Ala	Arg	Tyr	Met	Tyr	Gly	Asn	Leu	Leu	Lys	Pro	Asp	
225					230					235					240	
Ala	Lys	Gly	Gln	Val	Gly	Ala	Gly	Leu	Gly	Thr	Thr	Thr	Ser	Ala	Gly	
				245					250					255		
Thr	Val	Thr	Leu	Ile	Pro	Pro	Thr	Asp	Tyr	Ile	Thr	His	Thr	Gly	Gln	
				260					265					270		
Glu	Glu	Val	Ile	Asp	Gly	Leu	Thr	Tyr	Asp	Phe	Met	Met	Ala	Pro	Gly	
				275			280					285				
Ser	Glu	Ala	Pro	Ser	Glu	Met	Leu	Trp	Tyr	Val	Lys	Glu	Lys	Lys	Met	
						295					300					
Ile	Glu	Ala	Ala	Glu	Asp	Val	Thr	His	Thr	Leu	His	Asn	Thr	Tyr	Ser	
305					310					315					320	
Leu	Arg	Gly	Ala	Lys	Ile	Arg	Asp	Pro	Leu	Ala	Trp	Ser	Lys	Tyr	Ile	
				325					330					335		
Asn	Ala	Ala	Ile	Glu	Arg	Trp	Gly	Ala	Asp	Ala	Glu	Val	Ile	Ile	Ala	
				340					345				350			
Gln	His	His	Trp	Pro	Thr	Trp	Gly	Asn	Glu	Asn	Ile	Val	Lys	Leu	Met	
				355			360					365				
Lys	Gly	Gln	Arg	Asp	Met	Tyr	Arg	Tyr	Ile	Asn	Asp	Gln	Thr	Leu	Arg	
						375					380					
Met	Ala	Asn	Lys	Gly	Leu	Thr	Arg	Asp	Glu	Ile	Ala	Ala	Glu	Phe	Lys	
385					390					395					400	
Leu	Pro	Glu	Ser	Leu	Glu	Lys	Gln	Trp	Ala	Ser	Arg	Gly	Tyr	Tyr	Gly	
				405					410					415		
Ser	Val	Ser	His	Asp	Val	Lys	Ala	Thr	Val	Val	Phe	Tyr	Leu	Gly	Trp	
				420				425					430			
Phe	Asp	Gly	Asn	Pro	Ala	Thr	Leu	Asp	Glu	Leu	Pro	Pro	Glu	Leu	Ala	
				435			440					445				
Glu	Lys	Lys	Phe	Val	Gln	Tyr	Met	Gly	Gly	Ala	Asp	Ala	Ile	Met	Gln	
						455				460						
Lys	Ala	Lys	Ala	Asp	Tyr	Gln	Gly	Asn	Tyr	Arg	Trp	Val	Ala	Gln		
465					470				475					480		
Val	Val	Ser	Lys	Val	Phe	Ala	Asp	Pro	Asn	Asn	Gln	Ala	Ala	Ala	Arg	
				485				490								

Lys Gln Ala Met Asp Lys Gly Asp Val Lys Val Ser Gly Asn Gly Ala
 625 630 635 640
 Lys Leu Glu Glu Met Leu Ser Tyr Met Asp Thr Phe Asp Phe Trp Phe
 645 650 655
 Asn Ile Val Thr Pro
 660

<210> 10205

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 10205

Cys Ala Val Ala Ala Gly Arg Ser Leu Cys Gly His Leu Asp Asp Ala
 1 5 10 15
 Leu Val Ala Pro Ala Tyr Cys Pro Gly Cys Ser Ala Thr Ala Ala Gly
 20 25 30
 Leu Leu Arg Gly Arg His Ala Arg Arg Ser His Cys Ser Pro Ala Gly
 35 40 45
 Leu Leu Arg Cys Arg Arg Asp Leu Arg Thr Ser Pro Asp Thr Arg
 50 55 60
 Leu Gly Arg Thr Arg Arg Glu Ala Glu Ser Glu Ile Met Lys Thr Val
 65 70 75 80
 Leu Ile Thr Gly Ala Ser Ser Gly Ile Gly Ala Gly Leu Ala Lys Ser
 85 90 95
 Phe Ala Asp Asp Gly Tyr Arg Val Ile Ala Cys Gly Arg Asp Ala Gln
 100 105 110
 Arg Leu Ala Ala Val His Gln His Ser Pro Asn Ile Thr Val Arg Leu
 115 120 125
 Phe Asp Met Thr Asp Arg Asp Ala Cys Arg Gln Ala Leu Ala Asp Cys
 130 135 140
 Ala Ala Asp Thr Val Ile Leu Cys Ala Gly Thr Cys Glu Tyr Leu Asp
 145 150 155 160
 Arg Gly Glu Val Asp Ala Glu Leu Val Ala Arg Val Met Thr Thr Asn
 165 170 175
 Phe Met Gly Pro Val Asn Cys Leu Ala Ala Leu Gln Pro Gln Leu Val
 180 185 190
 Ser Gly Asn Arg Val Val Leu Val Ser Ser Met Ala His Trp Leu His
 195 200 205
 Phe Pro Arg Ala Glu Ala Tyr Gly Ala Ser Lys Ala Ala Leu Thr Trp
 210 215 220
 Phe Ala Asp Thr Leu Arg Leu Asp Trp Glu Pro Lys Gly Ile Ala Val
 225 230 235 240
 Thr Val Val Ser Pro Gly Phe Val Asp Thr Pro Leu Thr Arg Lys Asn
 245 250 255
 Asp Phe Pro Met Pro Gly Arg Val Ser Val Gly Asp Ala Val His Ala
 260 265 270
 Ile Arg Arg Gly Leu Ala Lys Gly Lys Asp His Ile Ala Phe Pro Ala
 275 280 285
 Gly Phe Ser Leu Ala Leu Arg Leu Leu Ser Gly Leu Pro Asp Val Leu
 290 295 300
 Gln Arg Ala Leu Leu Arg Arg Met Val Arg Pro
 305 310 315

<210> 10206

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 10206

Thr Leu Ser Arg Pro Gly Arg Ala Thr Glu Met Asn Ser Cys Leu Tyr

```

1           5           10           15
His Gly Thr  Leu Arg His Arg Arg Leu Ala Pro Lys Ala His His Phe
20          25          30
Thr Tyr Ser  Val Phe Met Ala Trp Leu Asp Leu Asp Glu Leu Asp Ala
35          40          45
Leu Pro Ser  Val Gly Val Arg Arg Asn Arg Val Ala Pro Ala Ala Phe
50          55          60
Tyr Asp Ala  Asp Tyr Pro Leu Gly Thr Pro Leu Lys Glu His Val Leu
65          70          75          80
Glu Arg Leu Glu Asn Leu Thr Gly Glu Arg Pro Ala Gly Arg Val Met
85          90          95
Leu Leu Thr  Gln Leu Arg Tyr Phe Gly Phe His Phe Asn Pro Val Asn
100         105         110
Phe Tyr Tyr  Cys Tyr Asp Gly Glu Asp Thr Leu Arg Trp Val Leu Ala
115         120         125
Glu Val Arg Asn Thr Pro Trp Asn Glu Arg His Tyr Tyr Ala Val Ala
130         135         140
Gly Arg Asp Ala Pro Pro Thr Gln Lys Ala Phe His Val Ser Pro Phe
145         150         155         160
Asn Pro Met Asp Met Val Tyr His Trp Arg Phe Asn Ser Pro Asp Ser
165         170         175
Thr Leu Arg Met His Ile Glu Asn His Gln Glu Thr Lys Val Phe Asp
180         185         190
Ala Thr Leu Thr Leu Arg Arg Ala Pro Leu Thr Arg Ala Ala Leu Arg
195         200         205
Ser Leu Leu Ala Arg Ile Pro Leu Met Thr Leu Lys Thr Val Phe Ala
210         215         220
Ile Tyr Trp Gln Ala Leu Arg Leu Trp Leu Lys Arg Val Pro Leu His
225         230         235         240
Asn His Pro Leu Ser Arg Ser Glu Arg Ser
245         250

```

<210> 10207

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 10207

```

Ser Leu Leu Asp Ala Gly Gly Ala Val Ser Arg Ala Gly Ala Gly His
1           5           10           15
Leu Asp Arg Ala Gly Gly Ala Cys Leu Ala Val Ile Thr Ala Ile Thr
20          25          30
Pro Gly Ile Arg Pro Cys Ala Gly Gly Val Gly Cys Ala Ala Gly Arg
35          40          45
Pro Leu Gly Ala Asp Gly Ala Asp Cys Val His Arg Arg Val Pro Asp
50          55          60
Ala Ala Met Asp Gly Gly Ala Val Ala Asn Val Cys His Arg Leu Asp
65          70          75          80
Ala Pro Asp Pro His Asp His Leu Ala Arg Met Val Ala Asp Gly Ala
85          90          95
Gly Asp Ser Gly Arg Thr Gly Ser Leu Pro Asp Arg Arg Ala Ser Trp
100         105         110
Gly His Tyr Val Ser Gly Ala Asp Leu Tyr Arg Arg Gln Leu Asp Val
115         120         125
Pro Arg Leu Ala Gly Ala Asp Ala Val Phe Pro Pro Val Asp Gly Glu
130         135         140
Thr Thr Met Arg Asn Leu Val Leu Met Leu Ala Leu Ser Val Phe Thr
145         150         155         160
Cys Thr Val Gln Ala Ala Asp Trp Leu Ser Trp Arg Lys Val Gly Asp
165         170         175
Ala Thr Leu Thr Trp Gly Pro Phe Ile Val Tyr Thr Ser Gln Leu Leu

```

```
<210> 10208
<211> 182
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10209
<211> 282
<212> PRT
<213> Enterobacter cloacae
```

```
<400> 10209
Arg Ala Glu Arg Gly Ile Ile Asp Gly Ser Val Cys Cys Lys Glu Val
1          5          10          15
Thr Met Thr Met Ala Leu Phe Pro Cys Leu Pro Gly Pro Thr Leu Asp
          20          25          30
```

Ala Val Asn Thr Val Gly Ala Trp Leu Ala Gln Asp Asp Tyr Gln Asp
 35 40 45
 Asn Gln Pro Val Asp Leu Val Ile Leu Ala Gly Asn Ala Val Val Pro
 50 55 60
 Ala Ile Asp Ala Ala Cys Lys Asn Ala Ala Glu Gln Gly Val Pro Leu
 65 70 75 80
 Ile Ile Ser Gly Gly Ile Gly His Ser Thr Thr Phe Leu Tyr Ala Ala
 85 90 95
 Ile Ala Lys His Pro Arg Tyr Asn Arg Ile Pro Thr Thr Gly Arg Ala
 100 105 110
 Glu Ala Ala Ile Leu Ala Asp Ile Ala Arg Glu Phe Trp Asn Ile Pro
 115 120 125
 Ala Glu His Leu His Val Glu Asp Gln Ser Thr Asn Cys Gly Glu Asn
 130 135 140
 Ala Arg Phe Ser Arg Ala Leu Met Lys Gln Ser Gly Leu Asn Ala Ala
 145 150 155 160
 Arg Val Leu Val Val Gln Asp Pro Thr Met Gln Arg Arg Thr Met Ala
 165 170 175
 Thr Phe Ala Arg Val Cys Arg Asp Glu Ala Ala Ala Pro Ala Trp Val
 180 185 190
 Ser His Pro Gly Leu Thr Pro Val Leu Gln Asn Ser Asp Asp Gly Leu
 195 200 205
 Val Phe Ser Gly Pro Ala Glu Gly Leu Trp Pro Val Glu Arg Tyr Leu
 210 215 220
 Ser Leu Val Leu Gly Glu Phe Pro Arg Leu Arg Asp Asp Ile Asn Gly
 225 230 235 240
 Tyr Gly Pro Ala Gly Arg Asp Phe Ile Ala His Val Asp Ile Pro Ala
 245 250 255
 Asp Val Asp Ala Ala Trp Gln Ile Leu Arg Asn Asp Val Ile Leu Thr
 260 265 270
 Asp Ala Leu Val Ser Arg Ser Leu Leu
 275 280

<210> 10210

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 10210

Asn Met Ser His Arg Lys Trp Asp Gly Ala Ile Ala Met Arg Asn Leu
 1 5 10 15
 Ala Leu Trp Tyr Arg Arg Phe Gly Glu Pro Glu Ser Val Leu Gln Ala
 20 25 30
 Glu Thr Thr Pro Leu Ser Pro Arg Gln Pro Gly Glu Ile Arg Val Arg
 35 40 45
 Met Leu Phe Ser Pro Val Asn Ala Ser Asp Leu Ile Pro Ile Thr Gly
 50 55 60
 Ala Tyr Arg His Arg Thr Pro Leu Pro Ala Ile Ala Gly Tyr Glu Gly
 65 70 75 80
 Val Gly Ile Val Thr Glu Thr Pro Ala Ala Tyr Pro Ala Leu Leu Gly
 85 90 95
 Lys Arg Val Leu Pro Leu Arg Gly Gln Gly Thr Trp Gln Arg Tyr Val
 100 105 110
 Asp Cys Pro Ala Ala Tyr Ala Val Pro Val Pro Asp Asp Val Asp Ser
 115 120 125
 Leu Leu Ala Ala Arg Ala Tyr Ile Asn Pro Leu Ala Ala Gln Met Met
 130 135 140
 Leu Asp Arg Tyr Pro Pro Val Gly Lys Thr Val Leu Leu Thr Ala Ala
 145 150 155 160
 Gly Ser Asp Cys Ala Val Leu Leu Gly Gln Trp Ala Arg Gln Ala Gly
 165 170 175

```
<210> 10211
<211> 144
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10212
<211> 152
<212> PRT
<213> Enterobacter cloacae
```

<400> 10212																
Met	Phe	Ser	Phe	Asp	Ala	Gly	Val	Arg	Leu	Gly	Pro	Asp	Asp	Cys	Arg	
			5						10					15		
Ala	His	His	Ala	Arg	Tyr	Gly	Asp	Gly	Cys	Val	Asp	Ala	Leu	Ala	His	
			20					25					30			
Phe	Arg	Arg	Tyr	Gly	Phe	Thr	Gln	Thr	Pro	Ala	Asp	Leu	Asp	Ala	His	
			35				40					45				
Pro	Cys	Ile	Ala	Tyr	Gln	Phe	Ala	Asp	Gly	Asn	His	Tyr	Gln	Trp	Glu	
			50			55					60					
Leu	Val	Gln	Asp	Gly	Lys	Arg	Val	Thr	His	Arg	Pro	Glu	Gly	Gln	Trp	


```

65          70          75          80
Ala Phe Ser Asp Ser Tyr Met Glu Ala Glu Ala Ala Arg Leu Gly Leu
      85          90
Gly Leu Ala Tyr Val Pro Val Glu Leu Met Gly Asp Asp Pro Glu Arg
      100          105
Gly Thr Leu Ile Arg Val Leu Gln Arg Tyr Ser Leu Arg Met Asp Gly
      115          120          125
Leu Tyr Leu Tyr Tyr Pro His Arg Asn Val Ser Pro Ala Leu Arg Ala
      130          135          140
Val Ile Asp Thr Leu Lys Ile
145          150

```

<210> 10213

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10213

```

Pro Phe Ile Gly Lys Gly Val Arg Leu Met Tyr Lys Lys Ile Leu Met
1      5      10
Pro Val Asp Val Phe Glu Met Asp Leu Ser Asp Lys Ala Val Arg His
      20      25      30
Ala Val Asn Leu Ala Lys Ala Glu Gly Ala Thr Ile Thr Leu Val Asn
      35      40      45
Ile Leu Pro Asn Ser Ser Arg Ser Leu Leu Arg Gly Phe Asn Ala Asp
      50      55      60
Ile Lys Lys Phe Glu Glu Tyr Met Thr Ala Glu Ser Asp Lys Lys Met
65      70      75      80
Lys Ala Leu Lys Arg Leu Phe Asp Met Ser Pro Glu Asn Ile Asp Cys
      85      90      95
Glu Val Arg Phe Gly Asn Val Arg Asp Glu Ile Ile Lys Leu Ser Lys
      100      105      110
Glu Gly Lys Tyr Asp Val Ile Val Ile Gly Ser Arg Asn Pro Ser Met
      115      120      125
Thr Thr His Leu Leu Gly Ser Asn Ala Glu Thr Ile Leu Arg Tyr Ala
      130      135      140
Thr Ile Pro Val Leu Val Val Arg
145          150

```

<210> 10214

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10214

```

Glu Val Lys Met Lys Val Asp Ala Leu Thr Gln Lys Ala Glu Glu Glu
1      5      10      15
Ile Ser Ala Leu Ile Ala Lys Lys Ile Ala Glu Leu Arg Lys Lys Thr
      20      25      30
Gly Gln Glu Val Ser Glu Ile Glu Phe Ile Ala Arg Glu Ala Met Thr
      35      40      45
Gly Leu Glu Gly Tyr Glu Val Lys Ile Lys Leu Leu
      50      55      60

```

<210> 10215

<211> 882

<212> PRT

<213> Enterobacter cloacae

<400> 10215

```

Leu Pro Met Lys Gly Lys Tyr Lys Ala Ala Ile Ala Leu Leu Leu Leu

```

1	Leu	Leu	Leu	Val	Pro	Leu	Thr	Leu	Leu	Met	Thr	Leu	Ala	Gln	Trp	Val
Pro	Thr	Leu	Ala	Gly	Ile	Trp	Leu	Pro	Val	Gly	Thr	Arg	Ile	Ala	Phe	
Glu	Glu	Ser	Pro	Arg	Leu	Thr	Arg	His	Ala	Leu	Ile	Pro	Asp	Leu		
Arg	Tyr	Leu	Val	Glu	Glu	Cys	Glu	Ile	Ala	Arg	Val	Glu	Asn	Val	Thr	
Leu	Ser	His	Pro	Ser	Arg	Trp	Asp	Leu	Asp	Ile	Gly	Ala	Leu	Glu	Thr	
Asn	Ser	Val	Cys	Leu	Ser	Lys	Leu	Pro	Gln	Ser	Ala	Ser	Ser	Thr	Val	
Ala	Pro	Lys	Thr	Leu	Ala	Gln	Trp	Gln	Ala	Ile	Leu	Pro	Asn	Thr	Trp	
Leu	Thr	Ile	His	Arg	Phe	Thr	Leu	Ser	Pro	Trp	Gln	Gln	Trp	Glu	Gly	
Glu	Leu	His	Ala	Ser	Leu	Thr	Pro	Ala	Arg	Gln	Asp	Ile	Thr	Tyr	Asn	
Gly	Glu	Gln	Val	Ser	Ile	Lys	Gly	Gln	Leu	Arg	Gly	Gln	Thr	Leu	Ser	
Ile	Ser	Gln	Phe	Asp	Val	Gln	Leu	Pro	Asp	Gln	Pro	Gln	Pro	Val	Lys	
Leu	Ile	Gly	Glu	Phe	Thr	Leu	Pro	Leu	Val	Pro	Asp	Gly	Val	Pro	Val	
Lys	Gly	His	Thr	Val	Ala	Thr	Phe	Asn	Val	Pro	Gln	Leu	Ser	Ser	Leu	
Val	Asp	Ala	Asp	Leu	Asp	Trp	Glu	Asp	Asn	Gln	Gly	Gln	Leu	Val	Val	
Met	Ala	Arg	Asp	Asn	Pro	Asp	Pro	Leu	Leu	Asp	Leu	Pro	Trp	Gln	Ile	
Thr	Ala	Gln	Gln	Leu	Thr	Ile	Ser	Asp	Gly	Arg	Trp	Asn	Trp	Ser	Ala	
Ser	Gly	Met	Pro	Met	Ser	Gly	Arg	Val	Gly	Leu	Lys	Val	Asp	Asn	Trp	
Gln	Gln	Gly	Leu	Glu	Lys	Ala	Thr	Phe	Thr	Gly	Arg	Leu	Asn	Val	Leu	
Thr	Gln	Gly	Asp	Ala	Gly	Lys	Gly	Asn	Ala	Val	Leu	Asn	Ile	Gly	Pro	
Gly	Ser	Leu	Ser	Met	Glu	Asn	Ser	Ala	Met	Pro	Leu	His	Leu	Ser	Gly	
Glu	Ala	Lys	Gln	Asn	Asp	Leu	Ile	Leu	Tyr	Ala	Arg	Leu	Pro	Ala	Lys	
Leu	Thr	Gly	Ser	Leu	Tyr	Asp	Pro	Gln	Leu	Thr	Phe	Glu	Pro	Gly	Ala	
Leu	Leu	Arg	Ser	Arg	Gly	Arg	Ile	Ile	Asp	Ser	Leu	Asp	Ile	Asp	Glu	
Ile	Arg	Trp	Pro	Leu	Ala	Gly	Val	Lys	Leu	Thr	Gln	Lys	Gly	Val	Asp	
Gly	Arg	Leu	Gln	Ala	Ile	Leu	Arg	Ala	His	Glu	Asn	Glu	Met	Gly	Asn	
Phe	Glu	Leu	His	Leu	Asp	Gly	Gln	Ala	Asn	Asp	Phe	Leu	Pro	Asp	Asn	
Gly	Leu	Trp	Gln	Trp	Arg	Tyr	Trp	Gly	Lys	Gly	Asn	Phe	Thr	Pro	Met	
Asn	Ala	Arg	Trp	Asp	Val	Arg	Gly	Thr	Gly	Glu	Trp	Arg	Asp	Asn	Val	
Ile	Glu	Leu	Thr	Asp	Leu	Ser	Thr	Gly	Phe	Asp	Lys	Leu	Gln	Tyr	Gly	
Thr	Met	Leu	Val	Ser	Lys	Pro	Arg	Leu	Val	Leu	Asp	His	Pro	Val	Arg	

Trp Ser Arg Asp Pro Asp Asn Pro Thr Phe Ser Gly Ala Leu Ala Leu
 500 505 510
 Asn Ala Gly Gln Thr Ser Phe Ser Gly Gly Ser Val Leu Pro Pro Ser
 515 520 525
 Val Leu Thr Phe Ser Val Asp Gly Thr Asp Pro Thr Val Phe Gln Phe
 530 535 540
 Lys Gly Asn Leu His Ala Asp Asp Ile Gly Pro Val Gln Val Asn Gly
 545 550 555 560
 Arg Trp Asp Gly Glu Arg Leu Arg Gly Lys Ala Trp Trp Pro Lys Gln
 565 570 575
 Ser Leu Thr Val Phe Gln Pro Leu Ile Pro Pro Asp Trp Lys Met Thr
 580 585 590
 Leu Arg Gly Gly Glu Met Tyr Ala Gln Val Ala Phe Ser Ala Ala Ser
 595 600 605
 Asp Gln Gly Phe Glu Ala Gly Gly His Gly Val Leu Lys Ala Gly Ser
 610 615 620
 Ala Trp Met Pro Asp Asn Glu Ile Asn Gly Ala Asp Phe Val Leu Pro
 625 630 635 640
 Phe Arg Leu Ser Gln Asp Thr Trp Ser Leu Gly Thr Arg Gly Pro Val
 645 650 655
 Thr Leu Arg Ile Asp Glu Val Lys Asn Leu Val Thr Ala Arg Asn Ile
 660 665 670
 Thr Ala Asp Leu Gln Gly Asp Tyr Pro Trp Thr Glu Ala Asn Pro Leu
 675 680 685
 Leu Leu Thr Asn Val Lys Val Glu Ala Leu Gly Gly Lys Ile Thr Met
 690 695 700
 Gln Gln Leu Arg Met Pro Gln His Asp Pro Ala Leu Leu Arg Val Asp
 705 710 715 720
 Asn Ile Ser Ser Ser Glu Leu Ile Ser Ala Val Asn Pro Lys Gln Phe
 725 730 735
 Ala Met Ser Gly Pro Val Ser Gly Ala Leu Pro Phe Trp Leu Asp Asn
 740 745 750
 Glu Lys Trp Ile Ile Lys Asp Gly Trp Leu Thr Asn Pro Gly Pro Met
 755 760 765
 Thr Leu Arg Ile Asp Gln Asp Thr Ala Asp Ala Ile Val Lys Asp Asn
 770 775 780
 Val Val Ala Gly Ala Ala Ile Asn Trp Leu Arg Tyr Met Glu Ile Ser
 785 790 795 800
 Gln Ser Trp Thr Lys Leu Asn Val Asp Asn Leu Gly Val Leu Thr Met
 805 810 815
 Gln Ala Ala Ile Lys Gly Thr Ser Arg Val Glu Gly Lys Ser Ser Phe
 820 825 830
 Val Asn Leu Asn Tyr Thr His Glu Glu Asn Ile Phe Thr Leu Trp Arg
 835 840 845
 Ser Leu Arg Phe Gly Asp Asn Leu Gln Thr Trp Phe Glu Gln His Ala
 850 855 860
 Ala Ile Pro Leu Leu Arg Gly Ser Thr Gly Lys Glu Ser Glu Glu Gln
 865 870 875 880
 Gln

<210> 10216

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 10216

Asn Pro Ala Ala Ile Cys Ser Glu Asp Ala Met Lys Arg Leu Ala Leu
 1 5 10 15
 Met Leu Leu Ala Leu Gly Met Asn Val His Ala Ala Thr Leu Thr Leu
 20 25 30

```

Asn Asp Ala Arg Ala Gln Gly Arg Val Gly Glu Thr Leu Ser Gly Tyr
  35          40          45
Leu Ala Pro Val Gln His Asp Ala Glu Thr Leu Ala Leu Val Ser Arg
  50          55          60
Ile Asn Ala Ala Arg Thr Glu Ser Tyr Gln Gln Leu Ala Asp Ser Asn
  65          70          75          80
Asn Leu Pro Val Asp Glu Val Ala Lys Met Ala Gly Gln Lys Leu Val
          85          90          95
Ala Arg Ala Gln Pro Gly Glu Tyr Val Lys Gly Ile Asn Gly Lys Trp
  100          105          110
Leu Lys Lys
  115

```

<210> 10217

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 10217

```

Trp Tyr Arg Ala Tyr Val Arg Leu Gly Met Asn Asn Val Ser Ala Tyr
  1          5          10          15
Ala Leu Cys Leu Gly Asp Asn Gly Leu Val Leu Ser Gln Arg Leu Gly
  20          25          30
Ala Trp Cys Gly His Ala Pro Glu Leu Glu Ile Asp Leu Ala Leu Ala
  35          40          45
Asn Ile Gly Leu Asp Leu Leu Gly Gln Ala Arg Asn Phe Leu Thr Tyr
  50          55          60
Ala Ala Glu Arg Glu Gly Lys Gly Asp Glu Asp Thr Leu Ala Tyr Gly
  65          70          75          80
Arg Asp Glu Arg Gln Phe Arg Asn Leu Leu Val Glu Gln Pro Asn
          85          90          95
Gly Ser Phe Ala Asp Thr Ile Ala Arg Gln Tyr Leu Met Asp Ala Trp
  100          105          110
Asn Val Ala Leu Tyr Glu Arg Leu Ile His Ser Ser Asp Ser Gln Leu
  115          120          125
Ala Ala Ile Ala Ala Lys Ala Ile Lys Glu Ala Arg Tyr His Leu Arg
  130          135          140
Phe Ser Arg Gly Trp Leu Val Arg Leu Gly Asp Gly Thr Glu Thr Ser
  145          150          155          160
Ala Gln Lys Met Gln Gln Ala Val Asp Ser Leu Trp Arg Phe Thr Ala
          165          170          175
Glu Leu Phe Asp Ala Asp Glu Val Glu Leu Ala Leu Ile Asp Asp Gly
          180          185          190
Val Ala Val Asp Pro Arg Asp Leu Arg Asp Pro Trp Glu Arg Glu Val
  195          200          205
Phe Ala Gly Leu Ala Glu Ala Thr Leu Arg Val Pro Glu Glu Val Ala
  210          215          220
Tyr Arg Thr Gly Gly Lys Lys Gly Leu His Thr Glu His Leu Gly Pro
  225          230          235          240
Met Leu Ala Glu Met Gln Tyr Leu Gln Arg Val Tyr Pro Gly Gln Gln
          245          250          255
Trp

```

<210> 10218

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 10218

```

Ala Ala Arg Ala Val Arg Ala Pro Ile Pro Arg Leu Ser Val Asn Leu

```

```

1           5           10           15
Asp Pro Arg Pro Ala Lys Arg Ser Thr Ala Ala Ile Pro Ala Val Ser
20
Pro Ser Thr Ile Ser Asn Val Phe Glu Ala Ala Met Thr Thr Phe His
35
Ser Leu Thr Val Ala Lys Val Glu Pro Glu Thr Arg Asp Ala Val Thr
50
Ile Thr Phe Ala Val Pro Gln Ala Leu Gln Glu Ala Tyr Arg Phe Arg
65
Pro Gly Gln His Leu Thr Leu Lys Ala Ser Pro Gly Gly Asp Glu Leu
85
Arg Arg Cys Tyr Ser Ile Cys Arg Ser Thr Ala Cys Gly Glu Ile Ser
100
Val Ala Val Lys Ala Ile Glu Gly Gly Arg Phe Ser Arg Tyr Ala Arg
115
Asp Glu Ile Lys Pro Gly Met Ala Leu Glu Val Met Val Pro Gln Gly
130
His Phe Gly Tyr Gln Pro Gln Ala Glu Arg Glu Gly His Tyr Leu Ala
145
Ile Ala Ala Gly Ser Gly Ile Thr Pro Met Leu Ala Ile Met Ser Ala
165
Thr Leu Ala Thr Glu Ala His Ser His Phe Thr Leu Ile Tyr Gly Asn
180
Arg Ser Ser Gln Ser Met Met Phe Arg Arg Ala Leu Ala Asp Leu Lys
195
Asp Lys Tyr Pro Gln Arg Leu Gln Leu Ile Ala Ile Phe Ser Gln Glu
210
Thr Leu Asp Ser Asp Leu Leu His Gly Arg Ile Asp Gly Glu Lys Leu
225
Gln Ala Leu Ala Lys Thr Leu Val Asn Phe Arg Gln Tyr Asp Glu Ala
245
Phe Ile Cys Gly Pro Ser Ala Met Met Asp Glu Ala Glu Ala Ala Leu
260
Gln Ala Leu Gly Met Pro Glu Lys Ala Ile His Leu Glu Arg Phe Asn
275
Thr Pro Gly Thr Ala Val Lys Arg Thr Ala Ser Val Gln Ala Asp Gly
290
Gln Lys Val Thr Val Arg Gln Asp Gly Arg Asp Arg Glu Ile Thr Leu
305
Thr Ala Asp Asp Glu Ser Ile Leu Asp Ala Ala Leu Arg Gln Gly Ala
325
Asp Leu Pro Tyr Ala Cys Lys Gly Gly Val Cys Ala Thr Cys Lys Cys
340
Lys Val Leu Arg Gly Lys Val Asp Met Ala Thr Asn Tyr Ser Leu Glu
355
Pro Asp Glu Leu Ala Ala Gly Tyr Val Leu Ser Cys Gln Ala Leu Pro
370
Leu Thr Ala Asp Val Ile Val Asp Phe Asp Ala Lys Gly Met Ala
385
390
395
400

```

<210> 10219

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 10219

```

Arg Cys Trp Arg Thr Cys Asn Val Thr Thr Ala Arg Asn Ala Ile Ala
1           5           10           15
Pro Val His Cys Cys Ala Ser Val Arg Phe Trp Arg Val Ala Met Ser
20
His Asn Ala Trp His Asn Ala Arg Ala Met Tyr Glu Arg Asp Ala Cys
30

```

<210> 10220

<212> PRT

<400> 10220

	Glu	Lys	Cys	His	Asn	Ala	Gly	Asn	Thr	Cys	Ala	Gly	Asn	Ala	Leu	Met
1	Ile	Asp	Ala	Gly	His	Ile	Ser	Ile	Arg	Ala	Leu	Leu	Ile	Phe	Ile	Asp
				20					25					30		
	Val	Tyr	Glu	Thr	Gln	Asn	Phe	Ser	Val	Val	Ala	Arg	Arg	Glu	Gly	Ile
			35					40					45			
	Ser	Ala	Ser	Gln	Val	Ser	Arg	Val	Ile	His	Gln	Leu	Glu	Asp	Ala	Leu
			50				55					60				
	Gly	Gln	Gln	Leu	Phe	Tyr	Arg	Asn	Thr	Arg	Ala	Ile	Met	Pro	Thr	Glu
65						70					75					80
	Ser	Gly	His	Leu	Phe	Val	Arg	Tyr	Ala	Arg	Ala	Met	Ala	Gly	Asn	Met
				85						90					95	
	Glu	Asp	Ala	Arg	Arg	Glu	Leu	Asp	Glu	Arg	Ala	Arg	Glu	Pro	Ser	Gly
				100					105					110		
	Thr	Leu	Arg	Ile	Asn	Gly	Pro	Val	Phe	Phe	Gly	Gln	Arg	His	Ile	Ala
			115					120					125			
	Pro	Gly	Leu	Pro	Gly	Leu	Leu	Ala	Arg	Tyr	Pro	Arg	Leu	Ser	Ile	Glu
			130				135					140				
	Leu	Thr	Leu	Thr	Asp		Phe	Ile	Asp	Pro	His	Arg	Asp	Ala	Ala	Asp
145						150					155					160
	Val	Ile	Phe	Arg	Ile	Gly	Ala	Leu	Thr	Asp	Ser	Ser	Phe	His	Ala	Arg
				165						170					175	
	Val	Phe	Gly	Gln	Gln	Phe	Tyr	His	Leu	Ala	Ala	Ser	Pro	Asp	Tyr	Leu
				180					185					190		
	Gln	Lys	His	Gly	Ala	Pro	Glu	Gly	Pro	Asp	Asp	Leu	Ser	Arg	His	His
			195					200					205			
	Cys	Leu	Val	Tyr	Arg	Gly	Ser	Ser	Gly	Pro	Asn	Arg	Trp	Leu	Ile	Arg
			210				215					220				
	Gln	Pro	Gly	Glu	Ala		Trp	Val	His	Tyr	Pro	Ile	Val	Pro	Leu	Met
225						230						235				240
	Ser	Asn	Asn	Ala	Glu	Thr	Leu	Leu	Ile	Ala	Ala	Leu	Gly	Gly	Met	Gly
				245						250					255	
	Val	Val	Leu	Phe	Pro	Asp	Trp	Met	Val	Ser	Glu	Arg	Leu	Lys	Ser	Gly
				260					265					270		
	Glu	Leu	Val	Ala	Leu	Leu	Pro	Glu	Met	Glu	Cys	Ser	Ile	Asn	Thr	Glu
			275					280					285			
	Pro	Leu	Thr	Ile	Ala	Ala	Ile	Tyr	Pro	Asn	Ala	Arg	His	Pro	Pro	Leu

290		295		300
Asn Val Arg Ala Val Ile Asp Tyr Tyr Ile Glu Arg Phe Gly Thr Pro				
305		310		315
Leu Tyr Trp Gln Thr				320
		325		

<210> 10221

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 10221

Leu	Gln	Glu	Gln	Val	Met	Thr	Val	Pro	Val	Gln	His	Pro	Met	Tyr	Ile
1				5					10					15	
Asp	Gly	Gln	Phe	Val	Ala	Trp	Gln	Gly	Asp	Ala	Trp	Ile	Asp	Val	Ile
			20					25					30		
Asn	Pro	Ala	Thr	Glu	Glu	Val	Ile	Ser	Arg	Ile	Pro	Asp	Gly	Thr	Ala
		35					40					45			
Glu	Asp	Ala	Arg	Lys	Ala	Ile	Asp	Ala	Ala	Glu	Arg	Ala	Gln	Ala	Gly
	50					55					60				
Trp	Glu	Ala	Leu	Pro	Ala	Ile	Glu	Arg	Ala	Ser	Trp	Leu	Arg	Lys	Ile
65					70					75				80	
Ser	Ala	Gly	Ile	Arg	Glu	Arg	Val	Ser	Glu	Ile	Ser	Ala	Leu	Ile	Val
				85					90					95	
Ala	Glu	Gly	Gly	Lys	Ile	Gln	Gln	Leu	Ala	Glu	Val	Glu	Val	Asn	Phe
			100					105					110		
Thr	Ala	Asp	Tyr	Ile	Asp	Tyr	Met	Ala	Glu	Trp	Ala	Arg	Arg	Tyr	Glu
		115					120					125			
Gly	Asp	Ser	Phe	Arg	Ala	Thr	Val	Asp	Met	Pro	Gly	Ala	Lys	Val	Val
	130						135				140				
Arg	Thr	Ile	Gln	Ser	Asp	Ser	Arg	His	Ala	Arg	Gly	Glu	Gly	Ser	Ala
145					150					155					160
Tyr															

<210> 10222

<211> 556

<212> PRT

<213> Enterobacter cloacae

<400> 10222

Lys	Val	Asn	His	Val	Met	Arg	Leu	Pro	Gln	Arg	Asp	Pro	Tyr	Ala	Pro
1				5					10					15	
Arg	Glu	Trp	Gln	Pro	His	Glu	Lys	Pro	Ala	Leu	Leu	Gly	Ser	Pro	Ser
			20					25					30		
Thr	Pro	Glu	His	Pro	Thr	Pro	Lys	Arg	Ile	Ala	Tyr	Gly	Val	Val	Gly
		35					40					45			
Leu	Leu	Val	Cys	Leu	Thr	Gly	Ala	Leu	Gly	Asn	Ala	Val	Val	Thr	Ala
	50					55					60				
Asn	Leu	Gln	Asn	Leu	Gln	Gly	Thr	Phe	Gly	Ala	Trp	Ser	Thr	Glu	Ile
65					70				75					80	
Ala	Trp	Leu	Pro	Ala	Val	Tyr	Val	Met	Thr	Asn	Val	Ser	Ile	Asn	Leu
				85					90					95	
Leu	Leu	Val	Lys	Phe	Arg	Gln	Gln	Tyr	Gly	Leu	Arg	Ala	Phe	Thr	Glu
			100					105					110		
Gly	Phe	Leu	Val	Leu	Tyr	Val	Leu	Val	Thr	Phe	Phe	His	Leu	Phe	Val
		115					120					125			
Asn	Asp	Leu	Ser	Ser	Ala	Leu	Met	Val	Arg	Ala	Ala	His	Gly	Met	Val
	130						135				140				
Ala	Ala	Ala	Leu	Ser	Ser	Leu	Gly	Ile	Tyr	Tyr	Gln	Ile	Gln	Ala	Trp
145					150					155					160

```
<210> 10223
<211> 484
<212> PRT
<213> Enterobacter cloacae
```

<400> 10223
Ala Gly Gly Val Pro Ala Ala Ala Pro Trp His Val Gly Ala Gly Asp
1 5 10 15
His Arg His Ala Gly Gly Glu Thr Met Thr Leu Arg Pro Ile Ala Gly
20 25 30

Leu Leu Met Met Ala Ile Leu Ala Gly Cys Gln Ser Val Asp Val Glu
 35 40 45
 Pro Ala Lys Ser Ser Leu His Ile Pro Ala Gln Trp Arg Ala Thr Ser
 50 55 60
 Gly Pro Ala Ser Pro Thr Glu Gln Leu Trp Trp Arg Asn Phe His Asp
 65 70 75 80
 Ser Asn Leu Asn Arg Tyr Val Asp Gln Ala Leu Lys Asn Asn Ser Asp
 85 90 95
 Val Leu Ile Ala Arg Glu Arg Ile Asn Glu Tyr Gln Ala Arg Val Phe
 100 105 110
 Ala Ala Asp Gly Ser Leu Phe Pro Ser Leu Asp Ala Gly Val Thr Gly
 115 120 125
 Thr Arg Ala Arg Ser Gln Ser Ala Ala Thr Gly Leu Pro Val Tyr Gly
 130 135 140
 Thr Leu Tyr Lys Gly Ser Leu Thr Ala Ser Tyr Asp Val Asp Ile Trp
 145 150 155 160
 Gly Val Asn Arg Ser Thr Ser Arg Ala Ala Ser Leu Glu Ala
 165 170 175
 Gln Lys Ala Ala Ala Ala Ala Asp Leu Thr Val Ala Ser Ser Val
 180 185 190
 Ala Ser Gly Tyr Val Thr Leu Leu Ser Leu Asp Glu Gln Leu Arg Val
 195 200 205
 Thr Gln Ser Thr Leu Lys Ser Arg Glu Glu Ala Phe Asn Leu Ala Lys
 210 215 220
 Arg Gln Phe Glu Thr Gly Tyr Ser Ser Arg Leu Glu Leu Met Gln Ser
 225 230 235 240
 Asp Ser Glu Leu Arg Ala Thr Arg Ala Gln Val Pro Leu Leu Gln His
 245 250 255
 Gln Ile Ala Gln Gln Glu Asn Ala Leu Ser Leu Leu Leu Gly Ser Asn
 260 265 270
 Pro Gly Asp Val Ala Arg Gly Glu Ser Phe Asp Ala Leu Thr Pro Leu
 275 280 285
 Lys Leu Pro Ser Gln Leu Pro Ser Thr Leu Leu Asn Arg Arg Pro Asp
 290 295 300
 Ile Val Gln Ala Glu Arg Gln Leu Ile Ala Ala Asp Ala Thr Leu Ala
 305 310 315 320
 Ala Ser Arg Ala Ser Leu Leu Pro Ser Ile Asn Leu Thr Ala Thr Gly
 325 330 335
 Ser Val Gln Asp Arg Thr Leu Ser Gly Leu Leu Asp Asn Pro Leu Gln
 340 345 350
 Leu Trp Ser Val Gly Gly Ser Ile Leu Ala Pro Leu Leu Asn Arg Gln
 355 360 365
 Ala Leu Asn Ala Gln Val Asp Ile Ser Gln Ser Gln Arg Asn Gln Ala
 370 375 380
 Leu Tyr Ser Tyr Glu Lys Thr Val Arg Asn Ala Phe Ala Glu Val Asn
 385 390 395 400
 Asp Ser Leu Asp Ala Ile Thr Arg Tyr Gln Glu Gln Leu Thr Glu Leu
 405 410 415
 Leu Ala Gln Gln Ala Val Ala Gln Glu Thr Leu Arg Ile Ala Gln Asn
 420 425 430
 Arg Tyr Arg Asn Gly Tyr Ser Ser Tyr Leu Asp Val Leu Asp Ala Gln
 435 440 445
 Arg Thr Leu Phe Ser Val Gln Thr Ser Val Val Gln Val Lys Asn Asn
 450 455 460
 Leu Leu Leu Ala Gln Ile Asp Leu Tyr Lys Ala Leu Gly Gly Gly Trp
 465 470 475 480
 Ser Ser Ala

<210> 10224

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 10224

```

Phe Gly Gly Tyr Cys Cys Tyr Thr Arg Tyr His Gly Lys Arg Cys Gly
1      5      10      15
Glu Arg Leu Ser Val Asn Phe Gln Asp Ile His Thr Tyr Tyr Gln Gln
20      25      30
Leu Asn Ile Gly Gln Phe Phe Pro His Met Leu Cys Lys Gly Glu Ala
35      40      45
Leu Thr Val Ala Ala Asn Lys Lys Leu Thr Val Glu Pro Gly Tyr Ile
50      55      60
Tyr Phe Cys Thr Glu Gly Ser Leu Thr Ile Leu Met Pro Asp Asp Gly
65      70      75      80
Leu Asn Ile Gly Asn Thr Ile Glu Tyr Met Pro Ile Gly Leu Met Glu
85      90      95
Arg Tyr Cys Pro Leu Ala Lys Tyr Glu Tyr Arg Ser Ser Ala Lys Val
100      105      110
Lys Leu Val Arg Ile Ser Trp Val Asp Phe Asp Gln Ile Phe Phe Gln
115      120      125
Gly Gly Pro Glu Arg Met Gln Ala Leu Ala Thr Ile Leu Thr Tyr Met
130      135      140
Ser Ile Phe Thr Ile Asp Leu His Asn Glu Arg Arg Gln Val Thr Ser
145      150      155      160
Tyr Gln Thr Ile Lys Pro Met Leu Tyr Arg Tyr Leu Tyr Arg Gln Glu
165      170      175
Thr His Thr Gly Glu Asn Glu Gly Leu Ala Leu Phe Ile Ile Lys Arg
180      185      190
Thr Asn Leu Ser Arg Thr His Val Phe Arg Val Leu Ala Asp Leu Lys
195      200      205
Ala Gly Gly Tyr Ile Thr Met Lys Arg Gly Lys Leu Val Ser Ile Asp
210      215      220
Arg Pro Leu Pro Asp Ala Tyr
225      230

```

<210> 10225

<211> 697

<212> PRT

<213> Enterobacter cloacae

<400> 10225

```

Phe Glu Ile Lys Leu Phe Ile Val Lys Ser Arg Asn Ile Trp Arg Glu
1      5      10      15
Glu Met Gln Gln Leu Ala Ser Phe Leu Ser Gly Ile Trp Gln Ser Gly
20      25      30
Arg Gly Arg Glu Arg Thr Ile Thr His Ala Ile Ser Gly Glu Thr Leu
35      40      45
Tyr Gln Val Thr Ser Glu Gly Leu Asp Met Ala Ala Ala Arg Arg Tyr
50      55      60
Ala Ile Glu His Gly Gly Glu Val Leu Arg Ala Met Ser Phe Ile Glu
65      70      75      80
Arg Ala Ala Met Leu Lys Ala Val Ala Lys His Leu Leu Ser Gln Lys
85      90      95
Asp Arg Phe Tyr Ala Leu Ser Ala Gln Thr Gly Ala Thr Lys Ala Asp
100      105      110
Ser Trp Val Asp Ile Glu Gly Gly Ile Gly Thr Leu Phe Thr Tyr Ala
115      120      125
Ser Leu Gly Ser Arg Glu Leu Pro Asp Asp Thr Leu Trp Pro Glu Asp
130      135      140
Glu Leu Ile Pro Leu Ser Lys Glu Gly Gly Phe Ala Ala Arg His Val
145      150      155      160

```

Leu Thr Ser Lys Ser Gly Val Ala Val His Ile Asn Ala Phe Asn Phe
 165 170 175
 Pro Cys Trp Gly Met Leu Glu Lys Leu Ala Pro Thr Trp Leu Ala Gly
 180 185 190
 Met Pro Ala Ile Ile Lys Pro Ala Thr Ala Thr Ala Gln Val Thr Gln
 195 200 205
 Ala Met Val Lys Ala Ile Val Glu Ser Gly Leu Val Pro Asp Gly Ala
 210 215 220
 Ile Ser Leu Ile Cys Gly Gly Ala Gly Asp Leu Leu Asn His Leu Asp
 225 230 240
 Ser Gln Asp Val Val Thr Phe Thr Gly Ser Ala Ser Thr Gly Gln Ser
 245 250 255
 Leu Arg Val His Pro Asn Ile Val Ala His Ser Ile Pro Phe Thr Met
 260 265 270
 Glu Ala Asp Ser Leu Asn Cys Cys Val Leu Gly Glu Asp Val Thr Pro
 275 280 285
 Glu Gln Pro Glu Phe Thr Leu Phe Ile Arg Glu Val Arg Glu Met
 290 295 300
 Thr Ala Lys Ala Gly Gln Lys Cys Thr Ala Ile Arg Arg Ile Ile Val
 305 310 315 320
 Pro Glu Ala Gln Val Glu Ala Val Ser Gln Ala Leu Ile Ala Arg Leu
 325 330 335
 Glu Asn Val Val Val Gly Asp Pro Ala Gln Glu Gly Val Lys Met Gly
 340 345 350
 Ala Leu Val Asn Ser Glu Gln Arg Ala Asp Val Gln Glu Lys Val Asp
 355 360 365
 His Leu Leu Ala Ser Gly Cys Gln Ile Arg Leu Gly Gly Lys Ala Asp
 370 375 380
 Leu Gln Ala Pro Gly Ala Phe Phe Pro Pro Thr Leu Leu Phe Cys Pro
 385 390 395 400
 Gln Pro Asp Glu Thr Pro Ala Val His Ala Thr Glu Ala Phe Gly Pro
 405 410 415
 Val Ala Thr Leu Met Pro Cys Arg Asn Thr Glu His Ala Met Gln Leu
 420 425 430
 Ala Arg Ala Gly Gly Gly Ser Leu Ala Gly Thr Leu Val Thr Ala Asp
 435 440 445
 Thr Arg Val Ala Arg Gln Phe Ile Ala Gly Ala Ala Arg Ala His Gly
 450 455 460
 Arg Ile Gln Ile Leu Asn Gln Glu Ser Ser Lys Glu Ser Thr Gly His
 465 470 475 480
 Gly Ser Pro Leu Pro Gln Leu Val His Gly Gly Pro Gly Arg Ala Gly
 485 490 495
 Gly Gly Glu Glu Leu Gly Gly Leu Arg Ala Val Lys His Tyr Leu Gln
 500 505 510
 Arg Thr Ala Ile Gln Gly Ser Pro Ser Met Leu Ala Ala Ile Gly Lys
 515 520 525
 Gln Trp Val Arg Gly Ala Glu Val Gln Glu Asp Arg Val His Pro Phe
 530 535 540
 Arg Lys Tyr Phe Glu Glu Leu Gln Pro Gly Asp Ser Leu Leu Thr Pro
 545 550 555 560
 Arg Arg Thr Leu Thr Glu Ala Asp Ile Val Asn Phe Ala Cys Leu Ser
 565 570 575
 Gly Asp His Phe Tyr Ala His Met Asp Lys Ile Gly Ala Ala Glu Ser
 580 585 590
 Ile Phe Gly Glu Arg Val Val His Gly Tyr Phe Leu Ile Ser Ala Ala
 595 600 605
 Ala Gly Leu Phe Val Asp Ala Gly Val Gly Pro Val Ile Ala Asn Tyr
 610 615 620
 Gly Met Glu Asn Leu Arg Phe Ile Glu Pro Val Lys Pro Gly Asp Thr
 625 630 635 640
 Ile Gln Val Arg Leu Thr Cys Lys Arg Lys Thr Leu Lys Lys Gln Arg

				645				650					655		
Thr	Ala	Glu	Glu	Lys	Pro	Thr	Gly	Val	Val	Glu	Trp	Ala	Val	Glu	Ile
			660					665					670		
Phe	Asn	Gln	His	Gln	Gln	Ala	Val	Ala	Leu	Tyr	Ser	Ile	Leu	Thr	Leu
		675					680					685			
Val	Ala	Arg	Gln	Gln	Gly	Asp	Phe								
	690					695									

<210> 10226

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10226

Arg	Ile	Ser	Thr	Arg	Gly	Glu	Asn	Thr	Met	Met	Thr	Tyr	Asp	Arg	Asn
1				5					10					15	
Arg	Asn	Ala	Ile	Thr	Thr	Gly	Ser	Arg	Val	Met	Ile	Ser	Gly	Thr	Gly
			20					25					30		
Gln	Phe	Gly	Val	Ile	Lys	Ala	Ile	His	Ser	Asp	Gly	Leu	Asn	Ala	Glu
		35					40					45			
Gln	Val	Arg	Arg	Gly	Lys	Thr	Val	Glu	Val	Glu	Gly	Cys	Glu	Gly	Lys
	50				55						60				
Phe	Glu	Pro	Ile	Glu	Leu	Ile	Arg	Leu	Gly	Met	His				
65					70					75					

<210> 10227

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 10227

Arg	Asp	Leu	Pro	Lys	Trp	Leu	Leu	Trp	Ala	Arg	Asn	Ile	Pro	His	Tyr
1				5					10					15	
Tyr	Lys	Ile	Arg	Phe	Leu	Asn	Phe	Arg	Val	Asn	Ile	Met	Ile	Tyr	Asp
			20					25					30		
Cys	Phe	Leu	Tyr	Tyr	Asp	Glu	Asp	Met	Leu	Leu	Asp	Ile	Arg	Leu	His
		35					40					45			
Thr	Leu	Ala	Asp	Val	Val	Asp	Arg	Phe	Val	Ile	Val	Glu	Ala	Thr	His
	50					55					60				
Ser	Phe	Thr	Gly	Ile	Pro	Arg	Glu	Leu	His	Phe	Asp	Ile	Thr	Lys	Phe
65					70					75				80	
Ala	Lys	Phe	Lys	Asp	Lys	Ile	Ile	Tyr	Val	Pro	Phe	Asp	Ala	Gln	Pro
				85					90					95	
Ile	Leu	Asn	Arg	Ala	Asp	Asn	Asn	Gln	Val	Asp	Ala	Trp	Ala	Asn	Glu
		100						105					110		
Ala	Ala	Leu	Arg	Asn	Ser	Ile	Met	Asn	Gly	Leu	Lys	Asp	Ala	Ala	Asp
		115					120					125			
Asp	Asp	Leu	Ile	Leu	Val	Ser	Asp	Val	Asp	Glu	Ile	Phe	Ser	Pro	Asp
	130					135					140				
Thr	Val	Arg	Ala	Ile	Asn	Pro	Arg	Ala	Leu	Cys	Thr	Thr	Ile	His	Gln
145					150					155					160
Asn	Val	Phe	Asn	Tyr	Gln	Phe	Asn	Leu	Gln	Val	His	Asn	Thr	Asp	Gly
			165						170					175	
Thr	Pro	Arg	Lys	Cys	Thr	Leu	Pro	Arg	Ala	Thr	Ser	Tyr	Tyr	Asn	Leu
			180					185					190		
Lys	His	Phe	His	Gly	Glu	Pro	Glu	Ser	Phe	Arg	Asn	Trp	Lys	Arg	
		195					200					205			
Ala	Arg	Lys	Asp	Lys	Asn	Trp	Ser	Trp	Phe	Lys	Trp	Asn	Trp	Leu	Lys
	210					215					220				
Ile	Asn	Asn	Lys	Ile	Val	Lys	Asp	Gly	Gly	Trp	His	Phe	Ser	Trp	Val
225					230					235					240

```
<210> 10228
<211> 116
<212> PRT
<213> Enterobacter cloacae
```

```

<210> 10229
<211> 90
<212> PRT
<213> Enterobacter cloacae

```

```
<210> 10230
<211> 261
<212> PRT
<213> Enterobacter cloacae
```

<400> 10230
Ala Phe Arg Gln Ser Ser Asn Arg Arg Tyr Ser Leu Leu Ile Lys Leu
1 5 10 15

Lys Lys Glu Arg Thr His Gln Glu Asp Arg Arg Leu Ala Leu Trp Leu
 20 25 30
 Ala Thr Ser Ala Gly Leu Leu Asn Ala Ile Ala Leu Gly Ala Phe Gly
 35 40 45
 Phe Phe Pro Ser His Met Thr Gly Asn Thr Ser Gln Leu Ser Ser Glu
 50 55 60
 Val Ser Ser Thr Asp Leu Ser Asp Ile Leu Phe Phe Gly Ala Ile Ile
 65 70 75 80
 Leu Ser Phe Val Ser Gly Ala Ile Ala Ala Arg Ile Ile Val Ile Trp
 85 90 95
 Gly Ile Ile His Asn Ile Arg Leu Val Phe Ser Gln Val Leu Phe Val
 100 105 110
 Glu Gly Leu Leu Ala Gly Val Ser Leu Tyr Glu Met Tyr Phe His
 115 120 125
 Ser Phe Ala Thr Asn Gln Glu Ile Ile Ile Phe Leu Cys Gly Leu Met
 130 135 140
 Gly Ile His Asn Ser Thr Thr Gln Leu Ser Gly Gly Arg Val Arg
 145 150 155 160
 Ser Thr His Ile Thr Gly Thr Leu Thr Asp Ala Gly Ile Ser Leu Ala
 165 170 175
 Ser Val Met Val Ala Met Leu Arg Arg Asp Tyr Ser Lys Asp Thr Ala
 180 185 190
 Ala Gln Lys Ser Gln Leu Lys Thr His Leu Thr Thr Leu Phe Ser Phe
 195 200 205
 Ile Ser Gly Gly Ile Ala Gly Leu Ile Leu Phe Arg Glu Phe Gly Phe
 210 215 220
 His Ala Met Leu Ala Leu Gly Leu Met Leu Val Val Ala Ala Phe
 225 230 235 240
 Ser Ile Val Arg Ile Ser Trp Arg Val Arg Lys Val Arg Ala Ala Leu
 245 250 255
 Ser Arg Gln Val
 260

<210> 10231

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 10231

Gln Thr Val Ala Val Gly Gly Ala Met Glu Thr Ile His Tyr Ile Leu
 1 5 10 15
 Asp Asn Trp Asp Tyr Leu Leu Thr Leu Thr Leu Gln His Leu Trp Leu
 20 25 30
 Val Ala Leu Ala Val Gly Leu Ala Ile Ile Ile Gly Val Pro Leu Gly
 35 40 45
 Ile Leu Ile Val Arg His Lys Trp Leu Ala Thr Pro Val Leu Gly Ile
 50 55 60
 Ala Thr Ile Val Leu Thr Ile Pro Ser Ile Ala Leu Phe Gly Leu Met
 65 70 75 80
 Ile Pro Leu Phe Ser Leu Ile Gly Gln Gly Ile Gly Ala Leu Pro Ala
 85 90 95
 Ile Thr Ala Val Phe Leu Tyr Ser Leu Leu Pro Ile Val Arg Asn Thr
 100 105 110
 His Thr Ala Leu Asp Ser Leu Pro Pro Gly Leu Arg Glu Ala Gly Arg
 115 120 125
 Gly Ile Gly Met Thr Phe Trp Gln Arg Leu Arg Trp Val Glu Ile Pro
 130 135 140
 Met Ala Leu Pro Val Ile Phe Gly Gly Ile Arg Thr Ala Val Val Met
 145 150 155 160
 Asn Ile Gly Val Met Ala Ile Ala Ala Val Ile Gly Ala Gly Gly Leu
 165 170 175

Gly Leu Leu Leu Leu Asn Gly Ile Gly Gly Ser Asp Ile Arg Met Leu
 180 185 190
 Ile Ala Gly Ala Leu Met Ile Cys Leu Leu Ala Ile Val Leu Asp Trp
 195 200 205
 Leu Leu His Arg Leu Gln Val Val Leu Thr Pro Lys Gly Ile Arg
 210 215 220

<210> 10232

<211> 501

<212> PRT

<213> Enterobacter cloacae

<400> 10232

Phe Arg His Glu Asp Phe Met Lys Asn Asn Asn Tyr Gln Gln Leu Thr
 1 5 10 15
 Arg Thr Phe Gln Arg Leu Ser Arg Phe Ser His Leu Ser Ser Ile Ala
 20 25 30
 Ser Trp Asp Met Phe Thr Met Met Pro Pro Gly Gly Ser Ala Ala Arg
 35 40 45
 Gly Glu Ala Leu Ala Glu Met Ser Val Leu Gln His Gln Ile Leu Thr
 50 55 60
 Asp Lys Lys Val Gly Glu Trp Leu Ala Ala Ala Asp Glu Asp Leu
 65 70 75 80
 Asn Asp Val Glu Leu Ala Asn Leu Arg Glu Met Thr Arg Tyr Tyr Gln
 85 90 95
 Gln Ala Thr Leu Leu Pro Glu Ser Leu Val Glu Ala Lys Ser Leu Ala
 100 105 110
 Gly Ser Arg Cys Glu His Ala Trp Arg Thr Gln Arg Pro Ala Asn Asp
 115 120 125
 Trp Gln Gly Phe Ser Ala Asn Leu Lys Glu Val Val Lys Leu Ser Arg
 130 135 140
 Glu Glu Ala Arg Leu Arg Ala Glu Ala Lys Gly Cys Thr Pro Tyr Asp
 145 150 155 160
 Ala Leu Leu Asp Ile Phe Glu Pro Asp Met Thr Ser Ala Arg Leu Asp
 165 170 175
 Val Leu Phe Gly Asp Leu Lys Ser Trp Leu Pro Glu Leu Leu Ala Lys
 180 185 190
 Val Val Glu Lys Gln Ala Gln Arg Ser Phe Val Pro Pro Gln Gly Pro
 195 200 205
 Phe Pro Thr Ala Thr Gln Arg Glu Leu Gly Leu Glu Ala Met Lys Met
 210 215 220
 Leu Gly Phe Asp Phe Asn Gly Gly Arg Leu Asp Val Ser Ala His Pro
 225 230 235
 Phe Cys Gly Gly Val Pro Glu Asp Val Arg Ile Thr Thr Arg Tyr Asp
 245 250 255
 Glu Asp Glu Leu Leu Ser Ala Leu Phe Gly Val Ile His Glu Thr Gly
 260 265 270
 His Ala Arg Tyr Glu Gln Asn Leu Pro Arg Ala Trp Ala Gly Gln Pro
 275 280 285
 Val Ala Leu Ala Arg Ser Thr Ala Ile His Glu Ser Gln Ser Leu Phe
 290 295 300
 Phe Glu Met Gln Leu Gly Arg Ser Asp Ala Phe Leu Lys His Leu Leu
 305 310 315
 Pro Ala Val His Ala Arg Phe Gly Ser Gln Ala Ala Phe Ser Glu Glu
 325 330 335
 Asn Phe Ile Ala Trp Asn Gln Arg Val Lys Pro Gly Tyr Ile Arg Val
 340 345 350
 Asp Ala Asp Glu Val Ser Tyr Pro Ala His Val Val Leu Arg Tyr Glu
 355 360 365
 Ile Glu Arg Ala Leu Ile Asn Gly Glu Ile Glu Val Asp Asp Ile Pro
 370 375 380

Ala Leu Trp Asp Glu Lys Met Gln Ala Trp Leu Gly Leu Ser Thr Lys
 385 390 395 400
 Asp Asn Tyr Arg Asn Gly Cys Met Gln Asp Ile His Trp Thr Asp Gly
 405 410 415
 Gly Phe Gly Tyr Phe Pro Ser Tyr Thr Leu Gly Ala Met Tyr Ala Ala
 420 425 430
 Gln Leu Phe His Ala Ala Lys Thr Ala Leu Pro Gly Leu Gln Ile Ser
 435 440 445
 Ile Ala Gly Gly Asp Phe Ser Ala Leu Phe Asp Trp Leu Arg Gln Asn
 450 455 460
 Ile Trp Gln His Gly Ser Arg Phe Ser Thr Ser Gln Leu Ile Thr Gln
 465 470 475 480
 Ala Thr Gly Glu Asp Leu Asn Ile Arg Tyr Phe Arg Glu His Leu Thr
 485 490 495
 Ser Arg Tyr Leu
 500

<210> 10233

<211> 487

<212> PRT

<213> Enterobacter cloacae

<400> 10233

Ile Pro Phe Pro Pro Asp Leu Pro Arg Arg His Ser Glu Tyr Asn Pro
 1 5 10 15
 Leu Pro Pro Ala Pro Val Arg Arg His Ser Ser Phe Pro Leu Asp Leu
 20 25 30
 Cys Tyr Gln Tyr Thr Ile Leu Tyr Ile Asn Thr Val Phe Ile Asn Gly
 35 40 45
 Asp His Asn Ala Val Phe His Pro Thr Trp Arg Tyr Gln Ser Glu Leu
 50 55 60
 Thr Met Phe Ala Leu Cys Asp Val Asn Ala Phe Tyr Ala Ser Cys Glu
 65 70 75 80
 Thr Val Phe Arg Pro Asp Leu Lys Gly Arg Pro Val Val Val Leu Ser
 85 90 95
 Asn Asn Asp Gly Cys Val Ile Ser Arg Ser Ala Glu Ala Lys Pro Phe
 100 105 110
 Val Lys Met Gly Glu Pro Tyr Phe Lys Gln Lys Asp Arg Phe Arg His
 115 120 125
 His Gly Val Val Cys Phe Ser Ser Asn Tyr Glu Leu Tyr Ala Asp Met
 130 135 140
 Ser Asn Arg Val Met Asn Thr Leu Glu Glu Met Ser Pro Arg Ser Glu
 145 150 155 160
 Ile Tyr Ser Ile Asp Glu Ile Phe Cys Asp Leu Thr Gly Val Arg Asn
 165 170 175
 Cys Arg Asp Leu Ser Asp Phe Gly His Glu Met Arg Ala Thr Val Leu
 180 185 190
 Gln Arg Thr His Leu Thr Val Gly Val Gly Ile Ala Pro Thr Lys Thr
 195 200 205
 Leu Ala Lys Leu Ala Asn His Ala Ala Lys Arg Trp Gln Leu Gln Thr
 210 215 220
 Gly Gly Val Val Asp Leu Ser Asn Val Asp Arg Gln Arg Lys Leu Met
 225 230 235 240
 Ala Ala Leu Pro Val Glu Asp Val Trp Gly Val Gly Arg Arg Ile Ala
 245 250 255
 Lys Lys Leu Glu Met Met Gly Ile Lys Thr Val Leu Gln Leu Ala Asp
 260 265 270
 Thr Asp Ile Arg Phe Ile Arg Lys His Phe Asn Val Val Leu Glu Arg
 275 280 285
 Thr Val Arg Glu Leu Arg Gly Glu Pro Cys Leu Glu Leu Glu Glu Phe
 290 295 300


```
<210> 10234
<211> 332
<212> PRT
<213> Enterobacter cloacae
```

Pro 1	Cys	Thr	Phe 5	Pro	Thr	Ala	Asn	Arg	Ser 10	Ala	Arg	His	Pro	Cys 15	Gly
His	Phe	Cys	Leu 20	Thr	Thr	Trp	Pro	Ile 25	Phe	Met	Phe	Ile	Lys 30	Val	Leu
Gly	Ser	Ala 35	Ala	Gly	Gly	Gly	Phe 40	Pro	Gln	Trp	Asn 45	Cys	Asn	Cys	Ala
Asn	Cys 50	Gln	Gly	Leu	Arg	Asp 55	Gly	Thr	Leu	Gln	Ala 60	Thr	Pro	Arg	Thr
Gln	Ser	Ser	Ile	Ile	Val 70	Ser	Asp	Lys	Gly 75	Lys	Glu	Trp	Val	Leu	Cys 80
Asn	Ala	Ser	Pro	Asp 85	Ile	Ser	Gln	Gln	Ile 90	Ala	His	Thr	Pro	Glu	Leu
Asn	Lys	Lys	Glu 100	Val	Leu	Arg	Gly	Thr 105	His	Ile	Gly	Gly 110	Ile	Ile	Leu
Thr	Asp 115	Ser	Gln	Ile	Asp	His	Thr 120	Thr	Gly	Leu	Leu	Ser 125	Leu	Arg	Glu
Gly	Cys 130	Pro	His	Gln	Val	Trp 135	Cys	Thr	Pro	Glu	Val 140	His	Glu	Asp	Leu
Ser	Ser	Gly	Phe	Pro	Ile 150	Phe	Thr	Met	Leu	Arg 155	His	Trp	Asn	Gly	Gly 160
Leu	Ile	His	His 165	Pro	Ile	Ala	Pro	Leu	Thr 170	Ala	Phe	Ser	Val	Glu	Ala
Cys	Pro	Asp 180	Leu	Gln	Phe	Thr	Ala 185	Val	Pro	Ile	Ala	Ser	Asn 190	Ala	Pro
Pro	Tyr 195	Ser	Pro	Trp	Arg	Asp	His 200	Pro	Leu	Pro	Gly	His 205	Asn	Val	Ala
Leu	Phe 210	Ile	Glu	Asn	Arg	Arg 215	Asn	Gly	Gln	Thr	Leu 220	Phe	Tyr	Ala	Pro
Gly 225	Leu	Gly	Glu	Pro	Asp 230	Ala	Ile	Leu	Pro 235	Trp	Leu	Lys	Lys	Ala	240

```
<210> 10235
<211> 403
<212> PRT
<213> Enterobacter cloacae
```

<400>	10235															
Arg	Arg	Ala	Leu	Pro	Leu	Pro	Arg	Trp	Ser	Gly	Phe	Tyr	Gly	Ala	Cys	
1			5	Ser	Pro	Pro	Val	Trp	10	Pro	Leu	Arg	Thr	Pro	Leu	Ala
Cys	Ala	Cys	Ala	20	Ser	Pro	Pro	25	Trp	Pro	Leu	Arg	Thr	30	Pro	Leu
Thr	Ser	Asn	Asp	Tyr	Phe	Ser	Gly	40	Glu	Val	Met	Ser	Gln	45	Gln	Asp
Ala	Lys	Glu	Gln	Ala	Asn	Thr	Arg	55	Lys	Asn	Val	Arg	Val	60	Val	Ser
65	Phe	Thr	Ala	Ala	Ala	Ile	Gly	70	Ile	Val	Gly	75	Val	Leu	Ile	Leu
Ala	Trp	Gln	Leu	Pro	Pro	Phe	Thr	Arg	His	Ala	Gln	Phe	Thr	85	Thr	Asp
Ala	Tyr	Val	Arg	Gly	Gln	Thr	Thr	Phe	105	Ile	Ser	Pro	Gln	110	Val	Asn
Tyr	Ile	Thr	Glu	Val	His	Val	Gln	120	Asp	Phe	Ala	Gln	Val	125	Lys	Lys
Glu	Leu	Leu	Leu	Gln	Ile	Asp	Asp	Arg	Ile	Tyr	Arg	Gln	Arg	140	Val	His
145	Gln	Ala	Glu	Ala	Gln	Leu	Ala	Met	Lys	Ile	Ala	Ala	Leu	155	Asn	Asn
Leu	Gln	Gln	Arg	Arg	Ser	Ala	Glu	Ala	Val	Ile	Ala	Lys	Asn	165	Glu	Ala
Ala	Leu	Lys	Asn	Ala	Arg	Ala	Gln	Ser	185	Leu	Lys	Thr	Gln	190	Ala	Asp
Lys	Arg	Val	Lys	Glu	Leu	Thr	Ala	Asp	200	Gly	Ser	Leu	Ser	205	Ile	Arg
Arg	Asp	Ser	Ala	Leu	Ala	Ser	Ala	Ala	Gln	Gly	Ser	Ala	Asp	220	Ile	Asp
Gln	Ala	Lys	Ala	Thr	Leu	Glu	Met	Ser	Arg	Gln	Asp	Leu	Gln	235	Thr	Val
225	Ile	Val	Asn	Arg	Gly	Ser	Leu	Glu	Ala	Asp	Val	Glu	Asn	245	Ala	Ala
Ala	Leu	Glu	Leu	Ala	Gln	Ile	Asp	Leu	Gln	Asn	Thr	Arg	Ile	260	Val	Ala
Pro	Arg	Asp	Gly	Gln	Leu	Gly	Gln	Ile	Ala	Val	Arg	Leu	Gly	275	Ala	Tyr
Val	Ala	Ala	Gly	Thr	His	Leu	Thr	Thr	Leu	Val	Pro	Pro	Gln	290	His	Trp
Val	Ile	Ala	Asn	Ile	Lys	Glu	Thr	Gln	Leu	Ala	Asn	Leu	Arg	305	Val	Gly
Gln	Pro	Val	Lys	Phe	Thr	Val	Asp	Ala	Leu	Asn	Asp	Lys	Ala	325	Tyr	Gln

Gly Arg Val Glu Ser Ile Ser Pro Ala Thr Gly Val Glu Phe Ser Ala.
 340 345 350
 Ile Thr Pro Asp Asn Ala Thr Gly Asn Phe Val Lys Ile Ala Gln Arg
 355 360 365
 Ile Pro Val Arg Ile Glu Val Leu Gly Glu Pro Glu Ala Tyr Arg Leu
 370 375 380
 Leu Arg Pro Gly Met Ser Val Gln Val Thr Ile Asp Thr Arg Glu Ala
 385 390 395 400
 Lys Gln

<210> 10236

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 10236

Arg Tyr Arg Leu Arg Pro Gly Ser Gly Tyr Gln Ser Ala Val Arg Arg
 1 5 10 15
 Glu Ser Arg Tyr Arg Gln Pro Gly Arg Cys Leu Arg Ser Pro Pro Leu
 20 25 30
 Thr Ala Arg Trp Glu Gly Phe Ser Phe Pro Ala Tyr Phe Val Ser Ser
 35 40 45
 Ala Pro Thr Leu Gln Pro Gly Gly Leu Met Ser Val Ile Ile Asp Thr
 50 55 60
 Phe Ile Ala Pro Pro Cys His Asp Asp Ile Glu Ile Leu Trp Gln Asp
 65 70 75 80
 Glu His Leu Leu Leu Ile Asn Lys Pro Ser Gly Leu Leu Ser Leu Ser
 85 90 95
 Gly Lys Asn Pro Gln Asn Arg Asp Ser Val His His Arg Leu Val Gln
 100 105 110
 Thr Phe Pro Gly Cys Thr Leu Val His Arg Leu Asp Phe Gly Thr Ser
 115 120 125
 Gly Leu Met Val Ile Ala Arg Asn Lys Ala Ile Asn Ala Ala Leu Cys
 130 135 140
 His Gln Phe Ser Gln Arg Ala Val Ser Lys Val Tyr Thr Ala Leu Leu
 145 150 155 160
 Cys Gly His Val Glu Gln Asp Glu Gly Thr Val Asp Ala Pro Ile Ala
 165 170 175
 Lys Asp Gln Ala Leu Phe Pro Leu Met Thr Ile Cys Ala Arg Thr Gly
 180 185 190
 Lys Pro Ala Arg Ser Arg Tyr Arg Val Met Glu Arg Ile Tyr Gln Asp
 195 200 205
 Thr Thr Met Pro Leu Thr Arg Val Glu Leu Thr Pro Glu Thr Gly Arg
 210 215 220
 Thr His Gln Leu Arg Ile His Cys Gln Gln Leu Gly His Pro Ile Leu
 225 230 235 240
 Gly Cys Asp Leu Tyr Gly Gly Leu Glu Trp Pro Gly Ala Glu Glu Thr
 245 250 255
 Pro Arg Leu Met Leu His Ala Ser Val Leu Asn Phe Ile His Pro Leu
 260 265 270
 Ser Gly Glu Thr Ile Asn Ala Cys His Ala Ala Pro Phe
 275 280 285

<210> 10237

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 10237

Lys Val Leu Leu Met Lys Thr Leu Leu Pro Thr Ser Thr Ala Gly Ser

1 5 10 15
 Leu Pro Lys Pro Thr Trp Leu Ala Gln Pro Glu Thr Leu Trp Ser Pro
 20 25 30
 Trp Lys Leu Gln Asp Glu Glu Leu Leu Ala Gly Lys Gln Asp Ala Leu
 35 40 45
 Arg Leu Ser Leu Asp Glu Gln Ile Arg Ala Gly Ile Asp Ile Val Ser
 50 55 60
 Asp Gly Glu Gln Thr Arg Gln His Phe Val Thr Thr Phe Ile Glu His
 65 70 75 80
 Leu Ser Gly Val Asp Phe Glu Asn Arg Gln Thr Val Arg Ile Arg Asn
 85 90 95
 Arg Tyr Asp Ala Ser Val Pro Thr Val Val Asp Ala Val Ala Arg Gln
 100 105 110
 Lys Pro Val Phe Val Asp Asp Ala Lys Tyr Leu Arg Gln Leu Thr Asp
 115 120 125
 Lys Pro Ile Lys Trp Ala Leu Pro Gly Pro Met Thr Met Ile Asp Thr
 130 135 140
 Leu Tyr Asp Ala His Tyr Lys Ser Arg Glu Lys Leu Ala Trp Glu Phe
 145 150 155 160
 Ala Lys Ile Leu Asn Gln Glu Ala Arg Glu Leu Glu Ala Ala Gly Val
 165 170 175
 Asp Ile Ile Gln Phe Asp Glu Pro Ala Phe Asn Val Phe Phe Asp Glu
 180 185 190
 Val Asn Asp Trp Gly Ile Ala Ala Leu Glu Arg Ala Ile Glu Gly Leu
 195 200 205
 Lys Cys Glu Thr Ala Val His Ile Cys Tyr Gly Tyr Gly Ile Lys Ala
 210 215 220
 Asn Thr Asp Trp Lys Lys Thr Leu Gly Ser Glu Trp Arg Gln Tyr Glu
 225 230 235 240
 Glu Ala Phe Pro Lys Leu Gln Thr Ser Lys Ile Asp Ile Ile Ser Leu
 245 250 255
 Glu Cys His Asn Ser Arg Val Pro Met Asp Leu Leu Glu Leu Ile Arg
 260 265 270
 Gly Lys Lys Val Met Val Gly Ala Ile Asp Val Ala Thr Gln Thr Ile
 275 280 285
 Glu Thr Pro Glu Glu Val Ala Asp Thr Leu Arg Lys Ala Leu Gln Phe
 290 295 300
 Val Asp Ala Asp Lys Leu Tyr Pro Ser Thr Asn Cys Gly Met Ala Pro
 305 310 315 320
 Leu Ser Arg Gln Val Ala Asn Gly Lys Leu Lys Ala Leu Ser Ala Gly
 325 330 335
 Ala Asp Ile Ile Arg Arg Glu Leu Ala Arg
 340 345

<210> 10238

<211> 834

<212> PRT

<213> Enterobacter cloacae

<400> 10238

Arg Trp Trp Arg Ala Ser Arg Val Thr Ser Asp Thr Pro Leu Ser Cys
 1 5 10 15
 Arg Val Ser Leu Arg Leu Pro Gly Leu Gln Leu Pro Asp Arg Gly Cys
 20 25 30
 Asp Ala Pro Pro Leu Phe Phe Asn Leu Ala Arg Leu Thr Asn Asn Leu
 35 40 45
 Ala Asp Ala Gly Lys Arg Phe Ser Cys Ala Pro Val Arg Ile Thr Leu
 50 55 60
 Thr Leu His Asn Lys His Asn Lys Met Arg Ser Ala Met Gly Ser Asn
 65 70 75 80
 Ser Ser Phe Ser Ala Arg Arg Thr Ala Leu Ala Met Ala Val Ala Leu

				85					90					95	
Cys	Cys	Ala	Trp	Gln	Ser	Pro	Val	Tyr	Ala	His	Gly	Ser	Glu	Ala	His
			100					105					110		
Met	Val	Pro	Met	Asp	Lys	Thr	Leu	Gln	Ala	Phe	Gly	Ala	Asp	Val	Gln
		115					120					125			
Trp	Asp	Asp	Tyr	Ala	Gln	Met	Phe	Thr	Ile	Val	Lys	Asp	Gly	Ala	Phe
	130					135					140				
Val	Lys	Val	Lys	Pro	Gly	Ala	Asn	Thr	Ala	Ile	Val	Asn	Gly	Lys	Pro
145					150					155					160
Leu	Thr	Leu	Gln	Val	Pro	Val	Val	Met	Lys	Asn	Asn	Lys	Ala	Phe	Ile
				165					170					175	
Pro	Glu	Thr	Phe	Ile	Asn	Asp	Val	Phe	Gln	Ser	Gly	Leu	Asp	Gln	Thr
			180					185					190		
Phe	Gln	Val	Glu	Lys	Ser	Pro	His	Pro	Leu	Asn	Ala	Leu	Thr	Ala	Asp
		195					200					205			
Glu	Ile	Asn	Gln	Ala	Val	Ala	Ile	Val	Lys	Ala	Ser	Ala	Asp	Phe	Lys
	210					215					220				
Pro	Asn	Thr	Arg	Phe	Thr	Gln	Ile	Ala	Leu	Ala	Glu	Pro	Glu	Lys	Ala
225					230					235					240
Lys	Val	Trp	Asp	Phe	Val	Leu	Asn	Gly	Thr	Ala	Val	Asp	Ala	Pro	Arg
				245					250					255	
Gln	Ala	Asn	Ile	Ile	Met	Leu	Asp	Gly	Lys	His	Ile	Ile	Glu	Ser	Arg
			260					265					270		
Val	Asp	Leu	Lys	Glu	Lys	Lys	Ile	Leu	Arg	Trp	Glu	Pro	Ile	Lys	Asp
		275					280					285			
Ala	His	Gly	Met	Val	Leu	Leu	Asp	Asp	Phe	Asn	Thr	Val	Gln	Gln	Ile
	290					295					300				
Ile	Asn	Glu	Ser	Pro	Glu	Phe	Ala	Ala	Val	Leu	Lys	Lys	Arg	Gly	Ile
305					310					315					320
Thr	Asp	Pro	Lys	Lys	Val	Ile	Thr	Thr	Pro	Leu	Thr	Val	Gly	Phe	Phe
			325						330					335	
Asp	Gly	Lys	Asp	Gly	Leu	Lys	Gln	Glu	Asp	Arg	Leu	Leu	Lys	Val	Ile
			340					345					350		
Ser	Tyr	Leu	Asp	Val	Gly	Asp	Gly	Asn	Tyr	Trp	Ala	His	Pro	Ile	Glu
		355					360					365			
Asn	Leu	Val	Ala	Val	Val	Asp	Leu	Glu	Gln	Lys	Lys	Ile	Gln	Lys	Ile
		370				375					380				
Glu	Glu	Gly	Pro	Val	Val	Pro	Val	Pro	Leu	Thr	Pro	Arg	Pro	Tyr	Asp
385					390					395					400
Gly	Arg	Asp	Arg	Val	Glu	Thr	Val	Lys	Lys	Pro	Leu	Glu	Ile	Ile	Glu
				405						410				415	
Pro	Glu	Gly	Lys	Asn	Tyr	Thr	Ile	Thr	Gly	Asp	Arg	Val	His	Trp	Gln
			420					425					430		
Asn	Trp	Asp	Phe	His	Leu	Ser	Leu	Asp	Ser	Arg	Val	Gly	Pro	Ile	Ile
		435													

Asp Trp Val Phe His Glu Asn Gly Thr Ile Gly Ile Asp Ala Gly Ala
 580 585 590
 Thr Gly Ile Glu Ala Val Lys Gly Val Gln Thr Lys Thr Met His Asp
 595 600 605
 Ala Thr Ala Lys Asp Asp Thr Arg Tyr Gly Thr Leu Ile Asp His Asn
 610 615 620
 Ile Val Gly Thr Thr His Gln His Ile Tyr Asn Phe Arg Leu Asp Met
 625 630 635 640
 Asp Val Asp Gly Ile Asn Asn Lys Leu Val Ala Met Asp Pro Asp Val
 645 650 655
 Lys Pro Asn Thr Ala Gly Gly Pro Arg Thr Ser Thr Met Gln Val Asn
 660 665 670
 Gln Tyr Asp Ile Asp Thr Glu Gln Ala Ala Gln Lys Phe Asp Pro
 675 680 685
 Gly Thr Ile Arg Leu Leu Ser Asn Thr Ser Lys Glu Asn Arg Met Gly
 690 695 700
 Asn Pro Val Ser Tyr Gln Ile Ile Pro Tyr Ala Gly Gly Thr His Pro
 705 710 715 720
 Val Ala Ser Gly Ala Lys Phe Ala Pro Asp Glu Trp Ile Tyr His Arg
 725 730 735
 Leu Ser Phe Met Asp Lys Gln Leu Trp Val Thr Arg Tyr His Pro Asp
 740 745 750
 Glu Met Tyr Pro Glu Gly Lys Tyr Pro Asn Arg Ser Thr His Asp Thr
 755 760 765
 Gly Leu Gly Gln Tyr Ser Lys Asp Asn Glu Ser Leu Asn Asp Gln Asp
 770 775 780
 Asn Val Ile Trp Met Thr Thr Gly Thr Thr His Val Ala Arg Ala Glu
 785 790 795 800
 Glu Trp Pro Ile Met Pro Thr Glu Trp Val His Thr Leu Leu Lys Pro
 805 810 815
 Trp Asn Phe Phe Asp Glu Thr Pro Thr Leu Gly Lys Lys Lys Glu Gln
 820 825 830
 Lys

<210> 10239

<211> 679

<212> PRT

<213> Enterobacter cloacae

<400> 10239

His Thr Phe Thr Arg Ile Arg Ser Leu His Lys Gln Arg His Ser Leu
 1 5 10 15
 Leu Arg Gly Phe Arg Met Arg Ile Asn Glu Ile Val Arg Ser Leu Ala
 20 25 30
 Leu Ala Gly Cys Phe Ile Ser Thr Ser Ser Ala Trp Ala Ala Glu Ala
 35 40 45
 Pro Lys Asp Ala Ser Ala Ala Thr Gln Gln Ala Asn Asn Ala Leu Phe
 50 55 60
 Asn Gln Leu Pro Phe Ser Asp Asn Thr Asp Phe Thr Asn Ala His Lys
 65 70 75 80
 Gly Phe Ile Ala Pro Leu Pro Gln Glu Ile Ile Lys Gly Glu Gln Gly
 85 90 95
 Asn Thr Val Trp Asp Pro Gln Gln Tyr Ala Phe Ile Lys Glu Gly Asp
 100 105 110
 Lys Ala Pro Asp Ser Val Asn Pro Ser Leu Trp Arg Gln Ser Gln Leu
 115 120 125
 Ile Asn Ile Ser Gly Leu Phe Glu Val Thr Glu Gly Val Tyr Gln Ile
 130 135 140
 Arg Asn Leu Asp Leu Ser Asn Met Thr Ile Ile Glu Gly Lys Glu Gly
 145 150 155 160

Ile	Thr	Val	Val	Asp	Pro	Leu	Val	Ser	Ala	Glu	Thr	Ala	Lys	Val	Gly
				165					170					175	
Met	Asp	Leu	Tyr	Tyr	Lys	Asn	Arg	Gly	Asn	Lys	Pro	Val	Val	Ala	Val
				180				185						190	
Ile	Tyr	Thr	His	Ser	His	Val	Asp	His	Tyr	Gly	Gly	Val	Arg	Gly	Val
				195			200					205			
Val	Asp	Glu	Ala	Asp	Val	Lys	Ser	Gly	Lys	Val	Lys	Val	Tyr	Ala	Pro
				210		215					220				
Ala	Gly	Phe	Met	Glu	Ala	Ala	Val	Ala	Glu	Asn	Ile	Met	Ala	Gly	Asn
225					230					235					240
Val	Met	Ser	Arg	Arg	Ala	Ser	Tyr	Met	Tyr	Gly	Asn	Leu	Leu	Lys	Pro
				245					250					255	
Asp	Ala	Lys	Gly	Gln	Val	Gly	Ala	Gly	Phe	Gly	Thr	Thr	Thr	Ser	Ala
				260				265						270	
Gly	Thr	Val	Thr	Leu	Ile	Ala	Pro	Thr	Asn	Ile	Ile	Glu	Lys	Asp	Gly
				275			280					285			
Gln	Lys	Glu	Val	Ile	Asp	Gly	Leu	Thr	Tyr	Asp	Phe	Met	Leu	Ala	Pro
				290		295					300				
Gly	Ser	Glu	Ala	Pro	Ser	Glu	Met	Leu	Trp	Tyr	Ile	Glu	Glu	Lys	Lys
305					310					315					320
Leu	Ile	Glu	Ser	Ala	Glu	Asp	Val	Thr	His	Thr	Leu	His	Asn	Thr	Tyr
				325					330					335	
Ser	Leu	Arg	Gly	Ala	Lys	Ile	Arg	Glu	Pro	Leu	Pro	Trp	Ser	Lys	Tyr
				340				345					350		
Ile	Asn	Gln	Ala	Ile	Val	Arg	Trp	Gly	Asp	Lys	Ala	Glu	Val	Ile	Met
				355			360					365			
Ala	Gln	His	His	Trp	Pro	Thr	Trp	Gly	Asn	Glu	Asn	Val	Val	Asn	Leu
				370		375					380				
Leu	Lys	Ser	Gln	Arg	Asp	Leu	Tyr	Arg	Tyr	Ile	Asn	Asp	Gln	Thr	Leu
385					390					395					400
Arg	Met	Ala	Asn	Glu	Gly	Leu	Thr	Arg	Asp	Glu	Ile	Ala	Ala	Asn	Phe
				405					410					415	
Lys	Leu	Pro	Asn	Ser	Leu	Ala	Asn	Thr	Trp	Ala	Asn	Arg	Gly	Tyr	Tyr
				420				425					430		
Gly	Ser	Val	Ser	His	Asp	Val	Lys	Ala	Thr	Tyr	Val	Leu	Tyr	Leu	Gly
				435		440					445				
Trp	Phe	Asp	Gly	Asn	Pro	Ala	Thr	Leu	Asp	Glu	Leu	Pro	Pro	Glu	Glu
				450		455					460				
Ala	Ala	Lys	Lys	Phe	Val	Glu	Tyr	Met	Gly	Gly	Ala	Asp	Ala	Ile	Leu
465					470					475					480
Ser	Lys	Ala	Lys	Thr	Asp	Phe	Asp	Gln	Gly	Asn	Tyr	Arg	Trp	Val	Ala
				485					490					495	
Gln	Val	Val	Ser	Lys	Val	Val	Phe	Ala	Asp	Pro	Asn	Asn	Gln	Ala	Ala
				500				505					510		
Arg	Asn	Leu	Glu	Ala	Asp	Ala	Leu	Glu	Gln	Leu	Gly	Tyr	Gln	Ala	Glu
				515			520					525			
Ser	Gly	Pro	Trp	Arg	Asn	Phe	Tyr	Leu	Thr	Gly	Ala	Gln	Glu	Leu	Arg
				530		535					540				
Asn	Gly	Val	Val	Lys	Gly	Pro	Thr	Pro	Asn	Thr	Ala	Ser	Pro	Asp	Thr
545					550					555					560
Val	Arg	Ala	Met	Thr	Pro	Glu	Met	Phe	Phe	Asp	Tyr	Leu	Ala	Val	His
				565					570					575	
Ile	Asn	Gly	Glu	Lys	Ala	Ala	Asp	Ala	Lys	Ser	Val	Phe	Asn	Ile	Asp
				580			585						590		
Leu	Gly	Ser	Asp	Gly	Gly	Lys	Tyr	Lys	Leu	Glu	Leu	Glu	Asn	Gly	Val
				595			600					605			
Leu	Asn	His	Thr	Ala	Asn	Ala	Glu	Ala	Lys	Asp	Ala	Asp	Ala	Thr	Val
				610		615					620				
Thr	Leu	Asn	Arg	Asp	Thr	Leu	Asn	Lys	Ile	Ile	Leu	Lys	Glu	Val	Thr
625					630					635					640
Leu	Arg	Gln	Ala	Gln	Asp	Asn	Gly	Asp	Ile	Lys	Val	Thr	Gly	Asp	Ala

				645					650					655			
Ala	Lys	Leu	Asp	Ala	Met	Leu	Gly	Tyr	Met	Asp	Lys	Phe	Glu	Phe	Trp		
			660					665					670				
Phe	Asn	Ile	Val	Thr	Pro												
			675														

<210> 10240

<211> 386

<212> PRT

<213> Enterobacter cloacae

<400> 10240

Arg	Gln	His	Ser	Arg	Ala	Glu	Val	Pro	Pro	Ala	Gln	Gly	Lys	Phe	Ser		
1			5					10					15				
Ser	Met	Glu	Lys	Arg	His	Pro	Ala	Thr	Pro	Glu	Pro	Ala	Thr	Trp	Pro		
			20					25					30				
Thr	Arg	Lys	Ser	Met	Val	Val	His	Gly	Leu	Ala	Val	Asn	Leu	Pro	Trp		
			35				40					45					
Leu	Ala	Phe	Val	Asn	Ala	Ser	Phe	Ala	Leu	Met	Val	Leu	Leu	Arg	Asn		
			50			55					60						
Ser	Leu	Phe	Gly	His	Ile	Asp	Ala	Leu	Leu	His	Ile	Ser	Pro	Pro	Leu		
65				70						75					80		
Arg	Gln	Met	Ile	Asp	Ala	Ser	Met	Leu	Gly	Val	Val	Ile	Leu	Ser	Val		
			85						90					95			
Ala	Leu	Val	Ile	Met	Ala	Trp	Arg	His	Ile	Arg	Gly	Val	Ser	Ala	Val		
			100					105					110				
Leu	Phe	Met	Cys	Ser	Leu	Leu	Trp	Ser	Ile	Ser	Cys	Tyr	Trp	Phe	Ile		
			115				120					125					
Asn	Val	Leu	His	Leu	Pro	His	Pro	Trp	Pro	Ile	Phe	Val	Thr	Leu	Leu		
			130			135					140						
Met	Ala	Gly	Met	Thr	Ala	Leu	Tyr	Phe	His	Pro	Val	Ala	Leu	Leu	Cys		
145				150						155					160		
Phe	Thr	Val	Pro	Leu	Trp	Ile	Ser	Leu	Pro	Val	Ala	Ser	Met	Leu	Leu		
			165							170				175			
Asn	Gln	Glu	Ile	Asn	Tyr	Arg	Phe	Ala	Gly	Leu	Trp	Val	Val	Phe	Thr		
			180				185						190				
Phe	Ile	Leu	Val	Cys	Gly	Arg	Tyr	Ile	Leu	Leu	Ser	Trp	Phe	Glu	Glu		
			195				200					205					
Ala	Trp	Arg	Arg	Asn	Gln	Gln	Asn	Gln	Arg	Leu	Ile	Ser	Arg	Leu	Asp		
			210			215					220						
Ala	Leu	Ala	His	Gln	Asp	Pro	Leu	Thr	Lys	Thr	Ala	Asn	Arg	Arg	Ala		
225				230						235					240		
Met	Glu	Leu	Val	Leu	Glu	Asn	Ala	Val	Glu	Gln	Gly	Lys	Arg	Phe	Ala		
			245							250				255			
Val	Leu	Met	Leu	Asp	Val	Asp	Tyr	Phe	Lys	Leu	Tyr	Asn	Asp	Thr	Tyr		
			260					265					270				
Gly	His	Gln	Ala	Gly	Asp	Ala	Cys	Leu	Ala	Arg	Val	Ala	Glu	Val	Leu		
			275				280					285					
Asn	Thr	Ser	Val	Arg	Thr	Pro	Glu	Asp	Val	Val	Ser	Arg	Tyr	Gly	Gly		
			290			295						300					
Glu	Glu	Phe	Val	Val	Ile	Leu	Phe	Asp	Cys	Glu	Glu	Ser	Val	Ala	Glu		
305				310						315					320		
Lys	Val	Ala	Ala	Arg	Ile	Gln	Ala	Gly	Leu	Arg	Thr	Ala	Ala	Ile	Ala		
			325							330				335			
His	Ser	Ala	Ser	Lys	Val	Ser	Glu	Cys	Val	Thr	Val	Ser	Met	Gly	Ile		
			340					345					350				
Ala	Gly	Tyr	Thr	Ala	Gly	Leu	Ala	Gly	Pro	Glu	Ile	Ile	Ala	Arg	Ala		
			355			360						365					
Asp	Ala	Ala	Leu	Tyr	Arg	Ala	Lys	Glu	Ala	Gly	Arg	Asp	Arg	Trp	Ser		
			370			375						380					

Arg

385

<210> 10241

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 10241

Phe	Arg	Lys	Leu	Pro	Val	Ile	Ser	Pro	Ser	Ile	Thr	His	Ala	Gly	Ser
1				5					10					15	
Ala	Ser	Phe	Ser	Thr	Met	Ala	Gly	Phe	Leu	Pro	Pro	Ser	Ser	Ser	Val
			20					25					30		
Thr	Pro	Val	Ser	Val	Ser	Ala	Ala	Thr	Arg	Ala	Ile	Cys	Leu	Pro	Val
		35					40					45			
Ala	Val	Glu	Pro	Val	Lys	Leu	Thr	Leu	Ala	Met	Arg	Gly	Cys	Glu	Val
	50					55					60				
Ser	Ala	Ala	Pro	Gln	Thr	Ala	Pro	Leu	Pro	Val	Thr	Thr	Leu	Asn	Thr
65					70					75				80	
Pro	Ser	Gly	Ile	Pro	Ala	Ser	Leu	Ala	Ser	Ser	Ala	Thr	Arg	Asn	Arg
			85						90					95	
Val	Ser	Gly	Val	Val	Ser	Glu	Gly	Leu	Ile	Thr	Met	Glu	Gln	Pro	Ala
			100					105					110		
Ala	Ser	Ala	Gly	Ile	Thr	Phe	His	Met	Pro	Ile	Ile	Ser	Gly	Lys	Phe
		115					120					125			
His	Gly	Thr	Ile	Pro	Ala	Thr	Thr	Pro	Thr	Gly	Ser	Leu	Arg	Val	His
	130					135					140				
Ala															
145															

<210> 10242

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 10242

Met	Gln	Gln	Cys	Glu	Asn	Ser	Asp	Gly	Ala	Ala	Arg	Thr	Ser	Met	Ala
1				5					10					15	
Cys	Ala	Ser	Glu	Gln	Asp	Asn	Phe	Gln	Gln	Trp	Leu	Ala	Gln	Ile	Asn
			20					25					30		
Gln	Val	Cys	Gly	Arg	Phe	Ala	Ala	Arg	Pro	Leu	Glu	Gly	Ala	Phe	Leu
		35					40					45			
Gly	Glu	Leu	Glu	Thr	Ser	Tyr	Thr	Gln	Ser	Leu	Lys	Leu	Ser	Thr	Val
	50					55					60				
Thr	Ala	Ala	Gly	Val	Asn	Leu	Phe	Arg	Thr	Arg	Gln	Glu	Ile	Lys	Asn
65					70					75				80	
Gly	Asn	Asp	Ala	Trp	Phe	Tyr	Thr	Val	Phe	Gln	Leu	Glu	Gly	Ser	Ala
			85						90					95	
Gly	Ile	Glu	Gln	Asp	Asn	Gln	Arg	Ala	Met	Leu	Lys	Ala	Gly	Asp	Ile
			100					105					110		
Thr	Leu	Ile	Asp	Ala	Ser	Arg	Pro	Cys	Ser	Ile	Tyr	Trp	Gln	Glu	Arg
		115					120					125			
Ser	Arg	Gln	Ile	Ser	Leu	Leu	Leu	Pro	Arg	Gln	Ile	Ile	Glu	Gln	His
	130					135					140				
Ala	Arg	Phe	Gln	Glu	Val	Arg	Cys	Ala	Leu	Pro	Leu	Ser	Ser	Ser	Leu
145					150					155					160
Pro	Thr	Val	Gln	Leu	Ser	Tyr	Arg	Leu	Leu	Gln	Glu	Ser	Met	Gly	Asn
				165					170					175	
Ala	Asp	Leu	Ser	Ala	Ser	Glu	Ser	Glu	Ala	Ala	Leu	Glu	Ala	Met	Val
			180					185					190		
Cys	Leu	Leu	Arg	Pro	Ala	Phe	Gln	Gln	Gln	His	Glu	Val	Leu	Pro	Arg
	195						200					205			

Lys Glu Arg Gln Phe Arg His Val Leu Ser Leu Ile Asp Asp His Ile
 210 215 220
 Gln Ser Glu Ala Leu Arg Pro Glu Trp Ile Ala Ser Glu Ser Gly Met
 225 230 235 240
 Ser Val Arg Ser Leu Tyr Arg Met Phe Ala Gly Lys Gly Leu Val Val
 245 250 255
 Ala Gln Tyr Ile Lys Asn Arg Arg Leu Asp Leu Cys Ala Gln Ala Leu
 260 265 270
 Arg Ser Ile Ser Asp Asp Glu Lys Leu Ala Gly Ile Gly Tyr Ser Trp
 275 280 285
 Gly Phe Thr Asp His Ser His Phe Ser Thr Ala Phe Lys Gln Arg Phe
 290 295 300
 Gly Val Ser Pro Gly Glu Tyr Arg Lys Arg Tyr Arg
 305 310 315

<210> 10243

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 10243

Arg Gly Ser Lys Ile Thr Gly Glu Ser Leu Met Lys Leu Ala Val Tyr
 1 5 10 15
 Ser Thr Lys Gln Tyr Asp Lys Lys Tyr Leu Gln His Val Asn Glu Thr
 20 25 30
 Tyr Gly Phe Asp Leu Glu Phe Phe Asp Phe Leu Leu Thr Glu Lys Thr
 35 40 45
 Ala Lys Thr Ala His Gly Cys Glu Gly Val Cys Ile Phe Val Asn Asp
 50 55 60
 Asp Gly Ser Arg Pro Val Leu Glu Glu Leu Lys Lys Gln Gly Val Lys
 65 70 75 80
 Tyr Ile Ala Leu Arg Cys Ala Gly Phe Asn Asn Val Asp Leu Asp Ala
 85 90 95
 Ala Lys Glu Leu Gly Leu Lys Val Val Arg Val Pro Ala Tyr Ser Pro
 100 105 110
 Glu Ala Val Ala Glu His Ala Val Gly Met Met Met Ser Leu Asn Arg
 115 120 125
 Arg Ile His Arg Ala Tyr Gln Arg Thr Arg Asp Ala Asn Phe Ser Leu
 130 135 140
 Glu Gly Leu Thr Gly Phe Thr Met Tyr Gly Lys Thr Ala Gly Val Ile
 145 150 155 160
 Gly Thr Gly Lys Ile Gly Val Ala Ala Leu Arg Ile Leu Lys Gly Phe
 165 170 175
 Gly Met Arg Leu Leu Ala Phe Asp Pro Tyr Pro Ser Ala Ala Ala Leu
 180 185 190
 Glu Leu Gly Val Glu Tyr Val Asp Leu Lys Thr Leu Phe Ser Gln Ser
 195 200 205
 Asp Val Ile Ser Leu His Cys Pro Leu Thr Pro Glu Asn Tyr His Leu
 210 215 220
 Leu Asn Gln Ser Ala Phe Asp Gln Met Lys Asp Gly Val Met Ile Ile
 225 230 235 240
 Asn Thr Ser Arg Gly Gly Leu Ile Asp Ser Gln Ala Ala Ile Glu Ala
 245 250 255
 Leu Lys Thr Gln Lys Ile Gly Ala Leu Gly Met Asp Val Tyr Glu Asn
 260 265 270
 Glu Arg Asp Leu Phe Phe Glu Asp Lys Ser Asn Asp Val Ile Gln Asp
 275 280 285
 Asp Val Phe Arg Arg Leu Ser Ala Cys His Asn Val Leu Phe Thr Gly
 290 295 300
 His Gln Ala Phe Leu Thr Ala Glu Ala Leu Ile Ser Ile Ser Glu Thr
 305 310 315 320

Thr Leu Gly Asn Leu Gln Gln Leu Asp Lys Gly Glu Ala Cys Pro Asn
 325 330 335
 Ala Ile Val
 340

<210> 10244

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 10244

Asn Met Ala Phe Val Thr Thr Lys Asp Gly Val Ser Ile Tyr Tyr Lys
 1 5 10 15
 Asp Trp Gly Pro Lys Asp Ala Gln Pro Ile Val Phe His His Gly Trp
 20 25 30
 Pro Leu Ser Ala Asp Asp Trp Asp Asn Gln Met Leu Phe Phe Leu Ala
 35 40 45
 Glu Gly Phe Arg Val Ile Ala Leu Asp Arg Arg Gly His Gly Arg Ser
 50 55 60
 Asp Gln Val Ser Glu Gly His Asp Met Asp His Tyr Ala Ser Asp Ala
 65 70 75 80
 Ser Ala Val Val Glu Ser Leu Asp Leu Arg Asn Ala Val His Val Gly
 85 90 95
 His Ser Thr Gly Gly Gly Gln Val Ala Arg Tyr Val Ala Lys Tyr Gly
 100 105 110
 Gln Pro Gln Gly Arg Val Ala Lys Ala Val Leu Val Ser Ala Val Pro
 115 120 125
 Pro Leu Met Val Lys Ser Asp Thr Asn Pro Gly Gly Thr Pro Ile Glu
 130 135 140
 Val Phe Asp Gly Phe Arg Gln Ala Leu Ala Ala Asn Arg Ala Gln Phe
 145 150 155 160
 Tyr Leu Asp Val Ala Ser Gly Pro Phe Tyr Gly Phe Asn Arg Asp Gly
 165 170 175
 Ala Glu Val Ser Gln Gly Thr Ile Gln Asn Trp Trp Arg Gln Gly Met
 180 185 190
 Ile Gly Ser Ala Lys Ala His Tyr Glu Gly Ile Lys Ala Phe Ser Glu
 195 200 205
 Thr Asp Gln Thr Asp Asp Leu Lys Ala Ile Thr Val Pro Val Leu Val
 210 215 220
 Leu Gln Gly Asp Asp Asp Gln Val Val Pro Tyr Lys Asn Ala Ala Leu
 225 230 235 240
 Leu Gln Asp Lys Leu Leu Ala Asn Ser Glu Leu Lys Ile Tyr Pro Gly
 245 250 255
 Phe Pro His Gly Met His Thr Thr His Ala Asp Thr Ile Asn Ala Asp
 260 265 270
 Ile Leu Thr Phe Ile Arg Ser
 275 280

<210> 10245

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 10245

Leu Glu Val Ser Met Cys Gly Arg Phe Ala Gln Ala Gln Thr Arg Glu
 1 5 10 15
 Glu Tyr Leu Ala Tyr Leu Ala Asp Glu Gly Glu Arg Asp Ile Ala Tyr
 20 25 30
 Asp Pro Glu Pro Ile Gly Arg Tyr Asn Val Ala Pro Gly Thr Lys Val
 35 40 45
 Leu Leu Leu Ser Glu Arg Asp Lys Gln Leu His Leu Asp Pro Val Phe

50						55					60						
Trp	Gly	Tyr	Ala	Pro	Gly	Trp	Trp	Asp	Lys	Ala	Pro	Leu	Ile	Asn	Ala		
65					70					75					80		
Arg	Val	Glu	Thr	Ala	Ala	Thr	Ser	Arg	Met	Phe	Lys	Pro	Leu	Trp	Gln		
				85					90					95			
His	Gly	Arg	Ala	Ile	Cys	Phe	Ala	Asp	Gly	Trp	Phe	Glu	Trp	Lys	Lys		
			100					105					110				
Glu	Gly	Asp	Lys	Lys	Gln	Pro	Tyr	Phe	Ile	His	Arg	Ala	Asp	Gly	Gln		
		115					120					125					
Pro	Ile	Phe	Met	Ala	Ala	Ile	Gly	Ser	Thr	Pro	Phe	Glu	Arg	Gly	Asp		
		130					135					140					
Glu	Ala	Glu	Gly	Phe	Leu	Ile	Val	Thr	Ser	Ala	Ala	Asp	Lys	Gly	Leu		
145					150					155					160		
Ile	Asp	Ile	His	Asp	Arg	Arg	Pro	Leu	Val	Leu	Ser	Pro	Glu	Ala	Ala		
				165						170					175		
Arg	Glu	Trp	Met	Arg	Gln	Asp	Val	Gly	Gly	Lys	Lys	Ala	Glu	Glu	Ile		
			180					185					190				
Ile	Ala	Asp	Gly	Thr	Val	Pro	Ala	Asp	Glu	Phe	Ile	Trp	His	Ala	Val		
		195					200					205					
Thr	Arg	Ala	Val	Gly	Asn	Val	Lys	Asn	Gln	Gly	Ala	Glu	Leu	Ile	Glu		
		210				215						220					
Val	Ala	His	Lys	Met	Glu	Lys											
225					230												

<210> 10246

<211> 284

<212> PRT

<213> Enterobacter cloacae

<400> 10246

Trp	Glu	Ala	Gly	Arg	Tyr	Arg	Tyr	Lys	Leu	Arg	Asn	His	Phe	Gln	Val		
1				5				10					15				
Glu	Gly	Met	Ile	Leu	Asn	Asp	Ile	Ala	Ile	Ile	Ala	Leu	Ala	Gly	Phe		
		20						25				30					
Thr	Thr	Gly	Ile	Thr	Thr	Val	Leu	Phe	Gly	Phe	Gly	Gly	Gly	Phe	Val		
		35					40					45					
Val	Val	Pro	Phe	Val	Tyr	Gln	Leu	Met	Leu	Arg	Gln	Thr	Glu	Leu	Ala		
		50				55					60						
Leu	Asn	Ala	Met	His	Ile	Ala	Val	Ala	Thr	Ser	Thr	Ser	Val	Met	Ile		
65				70					75					80			
Phe	Asn	Ala	Gly	Trp	Val	Thr	Tyr	Arg	Asn	Trp	Arg	Ala	Cys	Glu	Leu		
			85					90					95				
Ser	Ser	Gln	Met	Leu	Phe	Pro	Leu	Leu	Trp	Phe	Ile	Ala	Ile	Gly	Ala		
		100						105					110				
Ile	Val	Gly	Ser	Cys	Leu	Ala	Gly	Ile	Phe	Ser	Glu	Ser	Val	Val	Arg		
		115					120					125					
Ala	Leu	Phe	Ile	Phe	Tyr	Met	Leu	Thr	Thr	Ile	Ser	Asp	Cys	Leu	Leu		
		130				135						140					
Arg	Lys	Gly	Phe	Leu	Gly	Gly	Ser	Ser	Leu	Arg	Arg	Leu	Ser	Phe	Pro		
145				150					155						160		
Val	Val	Thr	Gly	Gly	Gly	Val	Thr	Ile	Gly	Met	Ile	Ala	Ala	Leu	Leu		
			165					170						175			
Gly	Val	Gly	Gly	Ser	Val	Met	Thr	Val	Pro	Leu	Leu	Arg	Arg	His	Gly		
		180						185					190				
Tyr	Ala	Met	Arg	Glu	Cys	Ile	Ser	Ala	Ser	Asn	Pro	Leu	Ser	Leu	Pro		
		195					200					205					
Val	Ala	Leu	Cys	Gly	Ala	Val	Thr	Tyr	Ala	Val	Ile	Gly	Trp	Gln	Thr		
		210				215					220						
Ile	Pro	Val	Lys	Gly	Phe	Leu	Gly	Phe	Ile	Asn	Leu	Lys	Ile	Leu	Gly		
225				230						235					240		
Met	Leu	Val	Leu	Thr	Gly	Trp	Ala	Gly	Ile	Val	Phe	Ser	Arg	Arg	Val		

				245				250				255
Ile	Pro	Ala	Val	Pro	Asp	Ile	Trp	His	Ala	Arg	Ile	Tyr
			260					265				270
Leu	Phe	Leu	Val	Leu	Leu	Ala	Met	Leu	Phe	Gln		
			275				280					

<210> 10247

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 10247

His	Pro	Ala	Leu	Ser	Arg	Ser	Ser	His	Trp	Pro	His	Gly	Ser	Thr	Val
1			5						10					15	
Met	Ser	Thr	Pro	Cys	Asp	Val	Lys	Leu	Arg	Pro	Leu	Glu	Arg	Glu	Asp
			20					25				30			
Leu	Arg	Phe	Val	His	Gln	Leu	Asp	Asn	Asn	Ala	Ser	Val	Met	Arg	Tyr
		35					40					45			
Trp	Phe	Glu	Glu	Pro	Tyr	Glu	Ala	Phe	Val	Glu	Leu	Ser	Asp	Leu	Tyr
	50					55					60				
Asp	Lys	His	Ile	His	Asp	Gln	Ser	Glu	Arg	Arg	Phe	Val	Val	Glu	Cys
65				70					75					80	
Glu	Gly	Glu	Lys	Ala	Gly	Leu	Val	Glu	Leu	Val	Glu	Ile	Asn	His	Val
			85					90					95		
His	Arg	Arg	Ala	Glu	Phe	Gln	Ile	Ile	Ile	Ser	Pro	Glu	His	Gln	Gly
			100					105					110		
Lys	Gly	Leu	Ala	Ser	Arg	Ala	Ala	Lys	Leu	Ala	Met	Asp	Tyr	Gly	Phe
		115				120						125			
Asn	Val	Leu	Asn	Leu	Tyr	Lys	Leu	Tyr	Leu	Ile	Val	Asp	Lys	Glu	Asn
	130					135					140				
Glu	Lys	Ala	Ile	His	Ile	Tyr	Arg	Lys	Leu	Gly	Phe	Met	Val	Glu	Gly
145				150					155					160	
Glu	Leu	Ile	His	Glu	Phe	Phe	Ile	Asn	Gly	Glu	Tyr	Arg	Asn	Thr	Ile
			165					170					175		
Arg	Met	Cys	Ile	Phe	Gln	His	Gln	His	Leu	Ala	Gly	His	Lys	Ser	Ser
		180						185					190		
Ser	Ala	Ser	Leu	Leu	Lys	Pro	Thr	Ala	Gln						
		195					200								

<210> 10248

<211> 775

<212> PRT

<213> Enterobacter cloacae

<400> 10248

Val	Met	Ser	Glu	Val	Glu	His	His	Gly	Gly	Ile	Ser	Arg	Arg	Thr	Leu
1			5						10					15	
Val	Lys	Ser	Thr	Ala	Ile	Gly	Ser	Leu	Ala	Leu	Ala	Ala	Gly	Gly	Ile
			20					25					30		
Ala	Leu	Pro	Phe	Gly	Leu	Lys	Ser	Ala	Ala	Ala	Ala	Val	Gln	Ser	Ala
		35					40					45			
Ile	Gln	Pro	Ala	Glu	Asp	Lys	Val	Val	Trp	Gly	Ala	Cys	Ser	Val	Asn
	50					55					60				
Cys	Gly	Ser	Arg	Cys	Ala	Leu	Arg	Leu	His	Val	Arg	Asp	Asp	Glu	Val
65				70					75					80	
Tyr	Trp	Val	Glu	Thr	Asp	Asn	Thr	Gly	Glu	Asp	Val	Tyr	Gly	Asn	His
			85					90					95		
Gln	Val	Arg	Ala	Cys	Leu	Arg	Gly	Arg	Ser	Ile	Arg	Arg	Arg	Ile	Asn
			100				105						110		
His	Pro	Asp	Arg	Leu	Asn	Tyr	Pro	Met	Lys	Arg	Val	Gly	Lys	Arg	Gly
		115					120					125			

Glu Gly Lys Phe Glu Arg Ile Thr Trp Glu Glu Ala Leu Asp Thr Ile
 130 135 140
 Ala Ala Ser Leu Lys Ser Val Val Glu Lys Tyr Gly Asn Glu Ala Val
 145 150 155 160
 Tyr Ile Asn Tyr Ser Ser Gly Ile Val Gly Gly Asn Ile Thr Arg Ser
 165 170 175
 Ser Pro Tyr Ala Ser Leu Val Ala Arg Leu Met Asn Cys Tyr Gly Gly
 180 185 190
 Phe Leu Ser His Tyr Gly Thr Tyr Ser Thr Ala Gln Ile Ala Cys Ala
 195 200 205
 Met Pro Tyr Thr Tyr Gly Ser Asn Asp Gly Asn Ser Thr Ser Asp Ile
 210 215 220
 Glu Asn Thr Lys Leu Val Met Phe Gly Asn Asn Pro Ala Glu Thr
 225 230 235 240
 Arg Met Ser Gly Gly Gly Ile Thr Tyr Phe Leu Glu Gln Ala Arg Glu
 245 250 255
 Arg Ser Asn Ala Arg Met Ile Val Ile Asp Pro Arg Tyr Thr Asp Thr
 260 265 270
 Ala Ala Gly Arg Glu Asp Glu Trp Ile Pro Ile Arg Pro Gly Thr Asp
 275 280 285
 Ala Ala Leu Val Ala Gly Ile Ala Trp Val Leu Ile Asn Glu Asn Leu
 290 295 300
 Val Asp Gln Pro Phe Leu Asp Lys Tyr Cys Val Gly Tyr Asp Glu Lys
 305 310 315 320
 Thr Leu Pro Glu Gly Ala Pro Ala Asn Gly His Tyr Lys Ala Tyr Ile
 325 330 335
 Leu Gly Gln Gly Asp Asp Lys Thr Ala Lys Thr Pro Asp Trp Ala Ser
 340 345 350
 Arg Ile Thr Gly Ile Pro Ala Glu Arg Ile Ile Lys Leu Ala Arg Glu
 355 360 365
 Ile Gly Ser Ala Lys Pro Ala Tyr Ile Cys Gln Gly Trp Gly Pro Gln
 370 375 380
 Arg Gln Ala Asn Gly Glu Gln Thr Ser Arg Ala Ile Ala Met Leu Pro
 385 390 395 400
 Ile Leu Thr Gly Asn Val Gly Ile Asn Gly Gly Asn Ser Gly Ala Arg
 405 410 415
 Glu Ser Thr Tyr Thr Ile Thr Ile Glu Arg Met Pro Leu Pro Glu Asn
 420 425 430
 Pro Val Lys Thr Gln Ile Ser Cys Phe Ser Trp Thr Asp Ala Ile Val
 435 440 445
 Arg Gly Pro Glu Met Thr Ala Leu Arg Asp Gly Val Arg Gly Lys Asp
 450 455 460
 Lys Leu Asp Val Pro Ile Lys Phe Ile Trp Asn Tyr Ala Gly Asn Thr
 465 470 475 480
 Ile Ile Asn Gln His Ser Asp Ile Asn Lys Thr His Asp Ile Leu Gln
 485 490 495
 Asp Glu Ser Lys Cys Glu Thr Ile Val Val Ile Asp Asn Phe Met Thr
 500 505 510
 Ser Ser Ala Lys Tyr Ala Asp Ile Val Leu Pro Asp Leu Met Thr Val
 515 520 525
 Glu Gln Glu Asp Ile Ile Pro Asn Asp Tyr Ala Gly Asn Met Gly Tyr
 530 535 540
 Leu Ile Phe Leu Gln Pro Val Thr Ala Pro Lys Phe Glu Arg Lys Pro
 545 550 555 560
 Ile Tyr Trp Ile Met Ser Glu Val Ala Lys Arg Leu Gly Pro Asp Ile
 565 570 575
 His Gln Lys Phe Thr Glu Gly Arg Thr Gln Glu Gln Trp Leu Arg Tyr
 580 585 590
 Leu Tyr Asp Lys Met Val Ala Lys Asp Pro Leu Leu Pro Ser Tyr Asp
 595 600 605
 Ala Leu Lys Lys Met Gly Ile Tyr Lys Arg Lys Asp Pro Asn Gly His

610						615					620					
Phe	Val	Ala	Tyr	Lys	Lys	Phe	Arg	Asp	Asp	Pro	Asp	Ala	Asn	Pro	Leu	
625					630					635					640	
Lys	Thr	Pro	Ser	Gly	Lys	Ile	Glu	Ile	Tyr	Ser	Ser	Lys	Leu	Ala	Asp	
				645					650					655		
Ile	Ala	Ala	Thr	Trp	Glu	Leu	Gln	Lys	Asp	Glu	Thr	Ile	Thr	Pro	Leu	
				660					665					670		
Pro	Val	Tyr	Thr	Ser	Thr	Phe	Glu	Gly	Trp	Asp	Ala	Pro	Glu	Arg	Ser	
				675					680					685		
Lys	Phe	Pro	Leu	Gln	Leu	Phe	Gly	Phe	His	Phe	Lys	Ala	Arg	Thr	His	
						695					700					
Ser	Ser	Tyr	Gly	Asn	Val	Asp	Val	Leu	Gln	Ala	Ala	Cys	Arg	Gln	Glu	
705					710					715					720	
Val	Trp	Leu	Asn	Pro	Val	Asp	Ala	Glu	Gln	Arg	Gly	Ile	Lys	Asn	Gly	
				725					730					735		
Asp	Met	Val	Arg	Val	Phe	Asn	Asp	Arg	Gly	Glu	Val	Arg	Ile	Ala	Ala	
				740					745					750		
Lys	Val	Thr	Pro	Arg	Ile	Met	Pro	Gly	Val	Ser	Ala	Met	Gly	Gln	Gly	
				755			760					765				
Ala	Gly	Met	Thr	Pro	Thr											
770						775										

<210> 10249

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 10249

Pro	Met	Thr	Thr	Gln	Tyr	Gly	Phe	Phe	Ile	Asp	Ser	Ser	Arg	Cys	Thr	
1				5					10					15		
Gly	Cys	Lys	Thr	Cys	Glu	Leu	Ala	Cys	Lys	Asp	Tyr	Lys	Asp	Leu	Thr	
			20					25					30			
Pro	Asp	Val	Ser	Phe	Arg	Arg	Ile	Tyr	Glu	Tyr	Ala	Gly	Gly	Asp	Trp	
			35				40					45				
Gln	Glu	Asp	Asn	Gly	Val	Trp	His	Gln	Asn	Val	Phe	Ala	Tyr	Tyr	Leu	
			50			55					60					
Ser	Ile	Ala	Cys	Asn	His	Cys	Glu	Asp	Pro	Ala	Cys	Thr	Lys	Val	Cys	
65					70				75						80	
Pro	Ser	Gly	Ala	Met	His	Lys	Arg	Asp	Asp	Gly	Phe	Val	Val	Val	Asp	
				85					90					95		
Glu	Asp	Val	Cys	Ile	Gly	Cys	Arg	Tyr	Cys	His	Met	Ala	Cys	Pro	Tyr	
			100					105					110			
Gly	Ala	Pro	Gln	Tyr	Asn	Ala	Ala	Lys	Gly	His	Met	Thr	Lys	Cys	Asp	
			115				120					125				
Gly	Cys	His	Ser	Arg	Val	Ala	Asp	Gly	Lys	Lys	Pro	Ile	Cys	Val	Glu	
			130			135					140					
Ser	Cys	Pro	Leu	Arg	Ala	Leu	Asp	Phe	Gly	Pro	Ile	Glu	Glu	Leu	Arg	
145					150					155					160	
Lys	Lys	His	Gly	Gln	Leu	Ala	Ala	Val	Ala	Pro	Leu	Pro	Ser	Ala	His	
				165					170					175		
Phe	Thr	Lys	Pro	Ser	Ile	Val	Ile	Lys	Pro	Asn	Ala	Asn	Ser	Arg	Pro	
			180					185					190			
Thr	Gly	Asp	Thr	Thr	Gly	Tyr	Leu	Ala	Asn	Pro	Lys	Glu	Val			
			195				200					205				

<210> 10250

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 10250

```

Thr Asp Trp Pro Trp Ala Ile Leu Trp Ser Ala Tyr Asp Arg Arg Val
1      5      10      15
Ser Asn Cys Arg Leu Thr Gln Val Arg Gly Ala Thr Arg Ala Gln Val
20      25      30
Arg Lys Val Val Met Asn Asp Val Ser His Arg Glu Ser Phe Ala Phe
35      40      45
Ser Ala Arg Val Leu Gly Ala Leu Phe Tyr Phe Ala Pro Asp Ser Glu
50      55      60
Gln Ile Ala Pro Leu Val Ser Ala Leu Thr Ala Gly Asp Trp Val Gln
65      70      75      80
Asp Trp Pro Leu Ala Glu Glu Asn Leu Leu Pro Val Ala Ser Met Phe
85      90      95
Lys Thr Pro Ser Asp Glu Ala Leu Lys Asp Ala Trp Gln Arg Leu Phe
100     105     110
Ile Gly Pro Tyr Ala Leu Pro Ala Pro Pro Trp Gly Ser Val Trp Leu
115     120     125
Asp Arg Glu Ser Val Leu Phe Gly Asp Ser Thr Leu Ala Leu Arg Gln
130     135     140
Trp Met Arg Glu Asn His Ile Ala Phe Glu Met Gln Gln Asn Glu Pro
145     150     155     160
Glu Asp His Phe Gly Thr Leu Leu Met Leu Ala Ala Trp Leu Ala Glu
165     170     175
Asn Gly Arg Glu Thr Glu Arg Asp Gln Leu Leu Ala Trp His Leu Leu
180     185     190
Pro Trp Ser Thr Arg Phe Leu Ser Val Phe Val Glu Asn Ala Ala His
195     200     205
Pro Phe Tyr Thr Ala Leu Gly Lys Leu Ala Gln Leu Thr Leu Ala Glu
210     215     220
Trp Gln Ser Thr Leu Leu Ile Pro Ile Val Glu Lys Thr Leu Tyr Arg
225     230     235     240

```

<210> 10251

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10251

```

Glu Thr Arg Asn Pro Asp Ala Arg Val Ser Met Val Thr Thr Trp Asp
1      5      10      15
Lys Thr Phe Ala Glu Ser Asp Lys Val Asp His Arg Lys Val Thr Phe
20      25      30
Glu Asn Arg Tyr Gly Ile Thr Leu Ala Gly Asp Leu Tyr Ile Pro Arg
35      40      45
Asn Ser Gly Asp Gln Met Leu Ala Ser Leu Leu Val Val Lys Tyr
50      55      60
Thr Tyr Val Tyr Thr Glu Ser Asn Pro Ile Pro Leu Gln Arg Ala Cys
65      70      75      80
Ile Leu Gly Arg Tyr Leu Cys Pro Pro Val Cys Ser Arg His Gln Gln
85      90      95

```

<210> 10252

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 10252

```

Arg Met Arg Thr Gly Arg His Thr Ala Met His Pro Leu Leu Lys Arg

```



```

1           5           10           15
Ser Leu Leu Phe Val Gly Ala Ile Ile Val Val Leu Ala Leu Leu Thr
20           25           30
Trp Gly Ile Gly Leu Glu Thr Ile Lys Ala Arg Gln Val Asp Leu Ile
35           40           45
Tyr Leu Gly Gln Gln His Leu Ile Leu Val Phe Ser Ser Met Phe Phe
50           55           60
Ala Leu Leu Val Gly Ile Pro Ser Gly Ile Leu Leu Ser Arg Pro Ala
65           70           75           80
Ala Arg Gly Ile Ala Glu Tyr Val Met Gln Ile Phe Asn Val Gly Asn
85           90           95
Thr Leu Pro Pro Leu Ala Val Leu Ala Leu Ala Met Val Val Ile Gly
100          105          110
Ile Gly Asp Lys Pro Ala Ile Ile Ala Leu Phe Leu Ala Ser Leu Leu
115          120          125
Pro Ile Val Arg Asn Thr Tyr Ala Gly Leu Cys Ser Val Pro Ala Ser
130          135          140
Leu Leu Glu Ala Ala Asn Gly Ile Gly Met Thr Lys Trp Gln Arg Leu
145          150          155          160
Arg Gln Val Glu Ile Pro Asn Ala Trp Pro Val Met Leu Ser Gly Ile
165          170          175
Arg Ile Ala Thr Ala Ile Asn Val Gly Thr Ala Pro Leu Ala Phe Leu
180          185          190
Ile Gly Ala Ser Ser Tyr Gly Glu Leu Ile Phe Pro Gly Ile Tyr Leu
195          200          205
Asn Asp Phe Pro Thr Leu Ile Leu Gly Ala Ala Ala Thr Ala Leu Phe
210          215          220
Ala Leu Ile Leu Asp Thr Leu Leu Ala Ala Leu Gly Arg Leu Leu Ser
225          230          235          240
Pro His Leu Ala Arg
245

```

<210> 10253

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 10253

```

Gln Gly Ala Ser Met Arg Leu Phe Ser Gly Leu Thr Ala Leu Cys Ala
1           5           10           15
Ala Ala Leu Phe Thr Ser Gln Ala Leu Ala Ala Pro Leu Ile Leu Ala
20           25           30
Thr Lys Ser Phe Thr Glu Gln His Ile Leu Ser Ala Met Thr Val Gln
35           40           45
Tyr Leu Gln Lys Lys Gly Phe Gln Val Gln Pro Gln Thr Asn Ile Ala
50           55           60
Thr Val Ile Ser Arg Asn Ala Met Ile Asn Lys Gln Ile Asp Met Thr
65           70           75           80
Trp Glu Tyr Thr Gly Thr Ser Leu Ile Ile Phe Asn His Ile Asn Lys
85           90           95
Arg Met Ser Pro Gln Glu Ser Tyr Glu Thr Val Lys Arg Leu Asp Ala
100          105          110
Lys His Gly Leu Val Trp Leu Lys Pro Ala Asp Met Asn Asn Thr Tyr
115          120          125
Ala Phe Ala Met Gln Arg Lys Arg Ala Glu Ala Glu His Ile Asn Thr
130          135          140
Met Ser Glu Met Val Ala Lys Ile Glu Gln Ile Arg Lys Thr Asp Pro
145          150          155          160
Asp Asn Asn Trp Leu Leu Gly Leu Asp Leu Glu Phe Ala Gly Arg Ser
165          170          175
Asp Gly Met Lys Pro Leu Gln Ala Ala Tyr Lys Met Glu Leu Asp Arg

```

Pro	Gln	Ile	Arg	Gln	Met	Asp	Pro	Gly	Leu	Val	Tyr	Asn	Ala	Val	Arg
	180						185					190			
Asp	Gly	Phe	Val	Asp	Ala	Gly	Leu	Ile	Tyr	Thr	Thr	Asp	Gly	Arg	Val
	195						200					205			
Lys	Gly	Phe	Asp	Leu	Lys	Val	Leu	Glu	Asp	Asp	Lys	Gly	Phe	Phe	Pro
	210						215				220				
Ser	Tyr	Ala	Val	Thr	Pro	Val	Val	Arg	Lys	Asp	Thr	Leu	Glu	Ala	Asn
	225						230				235				240
Pro	Gly	Leu	Glu	Ala	Leu	Asn	Thr	Leu	Ser	Ala	Gln	Leu	Asn	Asn	
	245						250								
Asp	Val	Ile	Thr	Asp	Leu	Asn	Lys	Lys	Val	Asp	Ile	Asp	His	Gln	Ser
	260						265								
Pro	Gln	Gln	Val	Ala	Arg	Asp	Phe	Leu	Arg	Ser	Lys	Gln	Leu	Leu	
	275						280								
	290						295					300			

<210> 10254

<211> 446

<212> PRT

<213> Enterobacter cloacae

<400> 10254

Thr	Glu	Tyr	Leu	His	Phe	Pro	Thr	Leu	Ile	Leu	Trp	Ser	Tyr	Pro	Ser
1			5					10						15	
Pro	Glu	Thr	Thr	Gly	Met	Phe	Lys	Gln	Gly	Leu	Cys	Val	Ser	Arg	Thr
	20							25					30		
Thr	Thr	Val	Asp	Ile	Ala	Pro	Ala	Ser	Asp	Ile	Asp	Asp	Leu	Pro	Ala
	35						40					45			
Ala	Pro	Gln	Pro	Val	Gln	Phe	Ile	Lys	Arg	Gly	Thr	Pro	Gln	Phe	Met
	50						55				60				
Arg	Val	Thr	Leu	Ala	Leu	Phe	Ser	Ala	Gly	Leu	Ala	Thr	Phe	Ala	Leu
	65						70				75				80
Leu	Tyr	Cys	Val	Gln	Pro	Ile	Leu	Pro	Val	Leu	Ser	His	Glu	Phe	Gly
							85				90				95
Val	Ser	Pro	Ala	Ser	Ser	Ser	Ile	Ser	Leu	Ser	Ile	Ser	Thr	Gly	Met
							100				105				110
Leu	Ala	Ile	Gly	Leu	Leu	Phe	Thr	Gly	Pro	Leu	Ser	Asp	Ala	Ile	Gly
							115				120				125
Arg	Lys	Gln	Val	Met	Val	Thr	Ala	Leu	Met	Leu	Ala	Ser	Val	Cys	Thr
	130						135				140				
Leu	Leu	Ser	Thr	Met	Met	Thr	Ser	Trp	His	Gly	Ile	Leu	Ile	Met	Arg
	145						150				155				160
Ala	Leu	Ile	Gly	Leu	Ser	Leu	Ser	Gly	Val	Ala	Ala	Val	Gly	Met	Thr
							165				170				175
Tyr	Leu	Ser	Glu	Glu	Ile	His	Pro	Ser	Phe	Val	Ala	Phe	Ser	Met	Gly
							180				185				190
Leu	Tyr	Ile	Ser	Gly	Asn	Ser	Ile	Gly	Gly	Met	Ser	Gly	Arg	Leu	Leu
							195				200				205
Ser	Gly	Val	Phe	Thr	Asp	Phe	Phe	Asn	Trp	Arg	Ile	Ala	Leu	Ala	Val
	210						215				220				
Ile	Gly	Cys	Phe	Ala	Leu	Ala	Ser	Ala	Leu	Met	Phe	Trp	Lys	Ile	Leu
	225						230				235				240
Pro	Glu	Ser	Arg	His	Phe	Arg	Pro	Thr	Ser	Leu	Arg	Pro	Lys	Thr	Leu
							245				250				255
Phe	Ile	Asn	Phe	Arg	Leu	His	Trp	Arg	Asp	Gln	Gly	Leu	Pro	Arg	Leu
							260				265				270
Phe	Leu	Thr	Gly	Phe	Leu	Leu	Met	Gly	Ser	Phe	Val	Thr	Leu	Phe	Asn
							275				280				285
Tyr	Ile	Gly	Tyr	Arg	Leu	Met	Leu	Ser	Pro	Trp	His	Leu	Ser	Gln	Ala
	290						295				300				
Leu	Val	Gly	Leu	Leu	Ser	Val	Ala	Tyr	Leu	Thr	Gly	Thr	Trp	Ser	Ser

```

305          310          315          320
Pro Lys Ala Gly Ala Met Thr Ala Arg Phe Gly Arg Gly Pro Val Met
          325          330          335
Leu Val Ser Thr Ala Val Met Leu Phe Gly Leu Leu Met Thr Leu Phe
          340          345          350
Ser Ser Leu Trp Leu Ile Phe Ala Gly Met Leu Leu Phe Ser Ala Gly
          355          360          365
Phe Phe Ala Ala His Ser Val Ala Ser Ser Trp Ile Gly Pro Arg Ala
          370          375          380
Arg Arg Ala Lys Gly Gln Ala Ser Ser Leu Tyr Leu Phe Ser Tyr Tyr
385          390          395          400
Leu Gly Ser Ser Ile Ala Gly Thr Leu Gly Gly Val Phe Trp His Asn
          405          410          415
Tyr Gly Trp Asn Gly Val Gly Gly Phe Ile Ala Leu Met Leu Cys Ala
          420          425          430
Ala Leu Leu Val Gly Ala Ser Leu His Lys Arg Leu His
          435          440          445

```

<210> 10255

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 10255

```

Leu Pro Pro Pro Glu Cys Asp Met Arg Lys Ser Val Val Leu Leu Leu
1          5          10          15
Gly Thr Phe Ser Leu Phe Ala Gly Phe Ser His Ala Asp Asp Gly Asp
          20          25          30
Asp Asp Ala Ile Ser Ala Lys Glu Val Lys Thr Leu Phe Phe Gly His
          35          40          45
Asp Asp Arg Thr Arg Val Thr Asp Pro Thr Glu Ser Pro Trp Asp Ala
          50          55          60
Ile Gly Gln Leu Glu Thr Ala Ser Gly Asn Leu Cys Thr Ala Thr Leu
65          70          75          80
Ile Thr Pro Arg Leu Ala Leu Thr Ala Gly His Cys Leu Leu Met Pro
          85          90          95
Pro Glu Gly Lys Pro Asp Lys Ala Ile Ala Leu Arg Phe Val Ser Gln
          100          105          110
Lys Gly Ile Trp Arg Tyr Glu Ile His Gly Ile Glu Gly Arg Val Asp
          115          120          125
Pro Ser Leu Gly Lys Arg Leu Lys Pro Asp Gly Asp Gly Trp Ile Val
          130          135          140
Pro Pro Gly Ala Ala Ser Trp Asp Phe Gly Leu Ile Val Leu Arg Tyr
145          150          155          160
Pro Pro Ser Gly Ile Thr Pro Leu Pro Leu Phe Asp Gly Asp Lys Ala
          165          170          175
Ala Leu Thr Ala Ala Leu Lys Ala Ala Asp Arg Lys Val Thr Gln Ser
          180          185          190
Gly Tyr Pro Val Asp His Leu Asp Ser Leu Tyr Thr His Thr Asp Cys
          195          200          205
Val Val Thr Gly Trp Ala Gln Asn Ser Val Leu Ser His Gln Cys Asp
          210          215          220
Thr Leu Pro Gly Asp Ser Gly Ser Pro Leu Met Leu Lys Thr Asp Asn
225          230          235          240
Gly Trp Gln Leu Ile Gly Val Gln Ser Ser Ala Pro Ala Ala Lys Asp
          245          250          255
Arg Trp Arg Ala Asp Asn Arg Ala Leu Ser Val Thr Gly Phe Arg Asp
          260          265          270
Arg Leu Glu Ala Leu Ala Gln Gln
          275          280

```

<210> 10256
 <211> 146
 <212> PRT
 <213> Enterobacter cloacae

<400> 10256

```

Arg Gly Lys Ala Glu Ser Asp Ala Gly Asp Pro Ser Val Gln Thr Arg
1      5      10      15
Tyr Pro Val Val Asp Ala Arg Arg Asp Asp His Gly Leu Arg Ala Thr
      20      25      30
Ala Ser Ala Leu Ser His Gly His Arg Gln Ser Gly Leu Ala His Asn
      35      40      45
Pro Thr Gly Ile Ser Met Gln Lys Asn Ser Ile Val Ala Phe Arg Arg
      50      55      60
Gly Tyr Arg Leu Gln Trp Glu Ala Ala Gln Asp Ser His Val Ile Leu
65      70      75      80
Tyr Pro Glu Gly Met Ala Lys Leu Asn Glu Thr Ala Ala Ala Ile Leu
      85      90      95
Glu Leu Val Asp Gly Gln Arg Asp Ala Ala Ala Ile Ile Ala Ile Leu
      100      105      110
Asn Glu Arg Phe Pro Glu Ala Gly Gly Val Asp Asp Asp Val Val Glu
      115      120      125
Phe Leu Gln Ile Ala Tyr Gln Gln Lys Trp Ile Ile Phe Arg Glu Pro
130      135      140
Glu
145

```

<210> 10257
 <211> 766
 <212> PRT
 <213> Enterobacter cloacae

<400> 10257

```

Asn Pro Gly Thr Val Thr Ile Met Thr Ile Arg Ile Val Glu Leu Ala
1      5      10      15
Gly Gly Leu Arg Ala Thr Leu Val His Gln Pro Gln Ala Thr Arg Ala
      20      25      30
Ala Ala Leu Ala Arg Val Ser Ala Gly Ser His His Glu Pro Pro Arg
      35      40      45
Phe Ala Gly Leu Ala His Leu Leu Glu His Leu Leu Phe Arg Gly Ser
50      55      60
Gln Arg Tyr Gln Gly Asp Asp Arg Leu Met Ala Trp Val Gln Arg Gln
65      70      75      80
Gly Gly Asn Val Asn Ala Thr Thr Leu Ala Arg His Ser Ala Phe Phe
      85      90      95
Phe Asp Val Ala Ala Asp Asn Leu Ser Asp Gly Val Ala Arg Leu Arg
      100      105      110
Asp Met Leu Gln Ala Pro Leu Leu Ser Arg Gln Asp Ile Gln Arg Glu
      115      120      125
Val Ala Val Ile Asp Ala Glu Asn Arg Leu Ile Gln Gln His Asp Pro
130      135      140
Ala Arg Arg Glu Ala Ala Ala Arg His Ala Met Glu Gln Pro Glu Val
145      150      155      160
Phe Arg Arg Phe Gln Val Gly Ser His Asp Ser Leu Gly Gln Asp Thr
      165      170      175
Gly Ser Leu His Ala Ala Leu Arg Gly Phe His Arg Arg Tyr Tyr Gly
      180      185      190
Ala Arg His Leu Gln Leu Trp Leu Gln Gly Pro Gln Thr Leu Asp Ala
      195      200      205
Leu Ala Glu Leu Ala His Thr Phe Ala Thr Gly Phe Ala Ser Gly Gly
210      215      220

```

Val 225	Pro Gln	Glu Leu	Ala Ala	Ala Thr	Pro Glu	Pro Arg	Leu Pro	Arg Ala	Leu Leu	Ser Trp	Ala Arg	Glu Cys	Ala Pro	Asp Leu	Trp Ile
Arg	Lys	Ser	Asp	Asn	Val	Thr	Leu	Leu	Arg	Glu	Phe	Leu	Leu	Asp	Glu
Ala	Pro	Gly	260	Leu	Ile	Asp	Gly	280	Leu	Arg	Ala	Arg	Gly	270	Leu
Glu	Val	Ser	Leu	Asp	Trp	Leu	Tyr	Gln	Asp	Asp	Asp	Tyr	Gly	Trp	Leu
Ala	Leu	Thr	Leu	Asp	Gly	Glu	Arg	Pro	Glu	Ala	Ile	Asp	Ala	Gln	Ile
Thr	Arg	Trp	Leu	Arg	Ala	Leu	Gln	Gln	Thr	Thr	Gln	Glu	Gln	Gln	Arg
His	Tyr	Tyr	Arg	Leu	Ala	Gln	Gln	Arg	Phe	Ser	Ala	Leu	Ser	Pro	Leu
Asp	Gln	Leu	Arg	Gln	Arg	Ala	Phe	Gly	Phe	Ala	Pro	Gly	Ala	Ala	Pro
Val	Asp	Phe	Ser	Ala	Phe	Cys	Ala	Asp	Leu	Leu	Ala	Ala	Pro	Thr	Ser
Tyr	Leu	Ala	Cys	Lys	Lys	Met	Glu	Thr	Ala	Glu	Ile	Ile	Ala	Ser	Gln
Gly	Phe	Ala	Leu	Pro	Leu	Ser	His	Trp	Arg	Arg	Gln	Pro	Val	Ala	Asp
Glu	Ser	Pro	Ile	Ala	Phe	Ser	Phe	Tyr	Pro	Gln	Ala	Thr	Gln	Tyr	Ser
Ala	Pro	Ala	Leu	Thr	Pro	Glu	Ala	Val	Pro	Leu	Leu	His	Leu	Pro	Ala
Gln	Ala	Gln	Ala	Pro	Thr	Leu	Ile	Leu	Arg	Arg	Pro	Phe	Tyr	Ser	Arg
Val	Ser	Glu	Ser	Gln	Gly	Val	Ala	Ile	Gly	Lys	Gln	Leu	Arg	Pro	Leu
Leu	Ala	Glu	Met	Arg	His	Ile	Gly	Ser	Ser	Gly	Glu	Trp	Gln	Thr	Val
Asp	Gly	Ser	Trp	Gln	Leu	Thr	Leu	Arg	Leu	Pro	Asp	Ala	Val	Val	Met
Ala	Glu	Pro	Ile	Ile	Gly	Ala	Ile	Ile	Asp	Arg	Leu	Ser	Arg	Pro	Thr
Pro	Ala	Ile	Thr	Pro	Ala	Pro	Asp	Gly	Ile	Ala	Ile	Arg	Gln	Leu	Leu
Lys	Gln	Leu	Pro	Glu	Arg	Leu	Ala	Ser	Glu	Pro	Ser	Arg	Asn	Gly	Trp
Leu	Ala	Ala	Leu	Ala	Gly	Gly	Ser	Ala	Gly	His	Ala	His	Gly	Leu	Ala
Arg	Gln	Leu	Gly	Leu	Leu	Arg	Ala	Pro	Val	Asn	Ala	Lys	Pro	Leu	Pro
Leu	Ser	Asp	Cys	Pro	Gly	Gly	Val	Glu	His	Ile	Pro	His	Ala	Ser	Ala
Asp	Ser	Ala	Leu	Leu	Val	Phe	Ile	Pro	Leu	Pro	Pro	Gly	Ala	Ser	Leu
Ala	Ala	Leu	Arg	Leu	Leu	Ala	Leu	Cys	Cys	Glu	Pro	Arg	Phe	Phe	Gln
Arg	Leu	Arg	Val	Glu	Gln	Gln	Ile	Gly	Tyr	Val	Val	Ser	Cys	Arg	Tyr
Gln	Arg	Ile	Ala	Asp	Arg	Asp	Gly	Leu	Leu	Leu	Ala	Leu	Gln	Ser	Pro
Asp	Arg	Ser	Pro	Val	Asn	Leu	Leu	Gly	Cys	Cys	Lys	Arg	Phe	Leu	Arg
Glu	Leu	Thr	Leu	Cys	Asp	Glu	Ser	Glu	Phe	Ser	Leu	Leu	Arg	Gln	Gln
Leu	Ala	Thr	Gln	Ile	Arg	Ser	Pro	Met	Asp	Ala	Ser	Ala	Thr	Ala	Val

705					710					715				720
Ala	Ala	Leu	Arg	Gln	Arg	Tyr	Gly	Leu	Pro	Val	Leu	Thr	Pro	Gln
				725					730					735
Ile	Asp	Ala	Leu	Gln	Pro	Asp	Glu	Ile	Val	Ala	Leu	Trp	Arg	Glu
			740					745					750	Met
Thr	Arg	Arg	Arg	Arg	Arg	Trp	Arg	Val	Leu	Phe	Thr	Gly		
		755					760					765		

<210> 10258

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 10258

Ile	Lys	Cys	Gln	Gln	Ala	Thr	Gly	Gln	Pro	Pro	Gln	Ser	Asn	Thr	Lys
1				5				10						15	
Gln	Glu	Phe	Pro	Met	Ser	Lys	Val	Leu	Val	Leu	Lys	Ser	Ser	Ile	Leu
			20					25					30		
Ala	Gly	Tyr	Ser	Gln	Ser	Gly	Gln	Leu	Ser	Asp	Tyr	Phe	Val	Glu	Gln
		35					40					45			
Trp	Arg	Glu	Gln	His	Ser	Ala	Asp	Glu	Ile	Thr	Val	Arg	Asp	Leu	Ala
	50					55					60				
Ala	Asn	Pro	Ile	Pro	Val	Leu	Asp	Gly	Glu	Leu	Val	Gly	Ala	Leu	Arg
65					70					75				80	
Pro	Ser	Asp	Ala	Pro	Leu	Thr	Pro	Arg	Gln	Gln	Glu	Ala	Leu	Ala	Leu
				85					90					95	
Ser	Asp	Glu	Leu	Ile	Ala	Glu	Leu	Gln	Ala	His	Asp	Val	Ile	Val	Ile
		100						105					110		
Asn	Ala	Pro	Met	Tyr	Asn	Phe	Asn	Ile	Pro	Thr	Gln	Leu	Lys	Asn	Tyr
		115					120					125			
Phe	Asp	Leu	Val	Ala	Arg	Ala	Gly	Val	Thr	Phe	Arg	Tyr	Thr	Glu	Asn
	130					135					140				
Gly	Pro	Glu	Gly	Leu	Val	Lys	Gly	Lys	Arg	Ala	Ile	Val	Leu	Thr	Ser
145				150						155				160	
Arg	Gly	Gly	Ile	His	Lys	Asp	Thr	Pro	Thr	Asp	Leu	Val	Ala	Pro	Tyr
			165						170					175	
Met	Thr	Leu	Phe	Leu	Gly	Phe	Ile	Gly	Ile	Thr	Asp	Val	Asn	Phe	Val
		180						185					190		
Phe	Ala	Glu	Gly	Ile	Ala	Tyr	Gly	Pro	Glu	Val	Ala	Thr	Lys	Ala	Gln
		195					200					205			
Ser	Asp	Ala	Lys	Ala	Ala	Ile	Asp	Ser	Leu	Val	Ala	Ala			
	210					215					220				

<210> 10259

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 10259

Ile	Ser	Arg	Arg	Ser	Ser	Asn	Asn	Ala	Val	Asn	Met	Met	Asn	Lys	Ala
1				5				10						15	
Thr	Thr	Leu	Ser	Ala	Asn	Ile	Thr	Thr	Arg	Ser	Asn	Trp	His	Trp	Gln
			20					25					30		
Asp	Asn	Ile	Trp	Thr	Leu	Gly	Leu	Tyr	Gly	Thr	Ala	Val	Gly	Ala	Gly
		35					40					45			
Thr	Leu	Phe	Leu	Pro	Val	Glu	Ile	Gly	Thr	Arg	Gly	Pro	Val	Ile	Phe
	50					55				60					
Leu	Val	Met	Leu	Leu	Leu	Gly	Leu	Pro	Leu	Ser	Leu	Ile	Pro	His	Leu
65					70					75				80	
Leu	Leu	Cys	Arg	Val	Tyr	Met	Arg	Glu	Glu	Lys	Thr	Glu	Asn	Gly	Thr
				85					90					95	

```

Leu Pro Ile Phe Gly Ser Phe Phe Ser Gly Arg Gly Glu Lys Leu Ile
      100      105      110
Thr Leu Phe Tyr Cys Val Thr Phe Pro Val Thr Leu Val Tyr Gly
      115      120      125
Val Ala Leu Ile Asn Ala Leu Ser Asn Leu Leu Val Glu His Leu His
      130      135      140
Ile Thr Ala Leu Ser Arg Gly Pro Leu Ser Phe Ile Val Val Ala Ala
      145      150      155      160
Leu Tyr Val Val Leu Ser Lys Gly Arg Asp Arg Val Val Ala Ile Met
      165      170      175
Ser Ala Leu Ala Leu Pro Phe Ala Ala Ser Val Leu Leu Ile Ala Val
      180      185      190
Ser Leu Ile Pro Gly Trp His Leu Ser Asn Leu Thr Asp Thr Ala Ala
      195      200      205
Glu Met Asn Ala Thr Pro Leu Pro Val Thr Leu Lys Asn Ile Trp Leu
      210      215      220
Thr Leu Pro Leu Ile Thr Phe Ser Phe Cys Cys Ala Pro Met Val Ser
      225      230      235      240
Pro Leu Thr Ser Tyr Tyr Arg Glu Arg Lys Ala Glu Gly Glu Lys Lys
      245      250      255
Ala Leu Phe Val Ile Arg Ile Ala Tyr Leu Ala Ile Phe Ala Ser Ile
      260      265      270
Leu Phe Phe Val Leu Ser Cys Val Leu Gly Ile Pro His Asp Asn Phe
      275      280      285
Val Arg Ala Lys Ala Glu Asn Leu Asn Val Leu Ser Val Met Lys Gly
      290      295      300
Asn Gly Asp Phe Ser Leu Ile Tyr His Ile Ala Pro Leu Ile Ala Ile
      305      310      315      320
Ile Gly Met Thr Lys Ser Phe Leu Gly Val Gly Leu Ser Val Ala Gln
      325      330      335
Thr Phe Gly Gln Leu Ala Ala Ser Val Ser Gly Lys Lys Ala Ser Ala
      340      345      350
Ser Lys Arg Leu Ala Ser Leu Ala Leu Phe Leu Leu Thr Tyr Gly Ile
      355      360      365
Val Tyr Ala Asn Pro Asp Val Leu Ser Leu Ile Glu Met Phe Cys Gly
      370      375      380
Pro Leu Ile Ala Val Ile Leu Phe Leu Ile Pro Ala Tyr Leu Ile Tyr
      385      390      395      400
Thr Arg Pro Ser Leu Ala Glu Leu Arg Gly Val Thr Gly Phe Leu Val
      405      410      415
Val Leu Gly Gly Leu Ala Thr Leu Ser Ala Leu Leu Trp Thr Met Leu
      420      425      430

```

<210> 10260

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 10260

```

Thr Ile Met Phe Val Glu Leu Val Tyr Asp Lys Arg Asn Val Gln Gly
1      5      10      15
Leu Glu Gly Ala Arg Glu Ile Ile Leu Thr Glu Leu Thr Lys Arg Val
      20      25      30
His Arg Ile Phe Pro Asp Ala Ser Val Thr Val Lys Pro Met Gln Ala
      35      40      45
Asn Gly Leu Asn Ser Asp Ala Ser Lys Ser Asp Arg Glu Lys Leu Asn
      50      55      60
Arg Met Leu Glu Glu Met Phe Glu Glu Ser Asp Met Trp Leu Ile Gln
      65      70      75      80

```

Glu

<210> 10261

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 10261

```

Pro Thr Ser Phe Thr Pro Val His Gly Ile Ser Pro Gln Ser Arg Pro
1      5      10      15
Ala Cys Ala Ser Leu Gln Trp Arg His Thr Asn Val Ala Leu Thr Thr
      20      25      30
Cys Arg Arg Ala Cys Tyr Val Ser Thr Thr Gln Lys Ala Leu Arg Asn
      35      40      45
Ser Glu Met Ile Ile Leu Val Thr Gly Ala Thr Ala Gly Phe Gly Glu
      50      55      60
Ser Ile Thr Arg Arg Phe Val Ala Asn Gly His Lys Val Ile Ala Thr
      65      70      75      80
Gly Arg Arg Gln Glu Arg Leu Gln Glu Leu Lys Asp Glu Leu Gly Asp
      85      90      95
Ser Ile Leu Thr Ala Gln Leu Asp Val Arg Asn Arg Ala Ala Ile Glu
      100      105      110
Glu Met Ile Ala Asn Leu Pro Ala Glu Trp Arg Glu Ile Asp Val Leu
      115      120      125
Val Asn Asn Ala Gly Leu Ala Leu Gly Met Glu Pro Ala His Lys Ala
      130      135      140
Ser Leu Glu Asp Trp Glu Asn Met Ile Asp Thr Asn Asn Lys Gly Leu
      145      150      155      160
Val Tyr Met Thr Arg Ala Val Leu Pro Gly Met Val Glu Arg Asn Arg
      165      170      175
Gly His Ile Ile Asn Ile Gly Ser Thr Ala Gly Ser Trp Pro Tyr Ala
      180      185      190
Gly Gly Asn Val Tyr Gly Ala Thr Lys Ala Phe Val Arg Gln Phe Ser
      195      200      205
Leu Asn Leu Arg Thr Asp Leu His Gly Thr Ala Ile Arg Val Thr Asp
      210      215      220
Val Glu Pro Gly Leu Val Gly Gly Thr Glu Phe Ser Asn Val Arg Phe
      225      230      235      240
Lys Gly Asp Asp Ala Lys Ala Asp Lys Thr Tyr Glu Asn Ala Asn Ala
      245      250      255
Leu Thr Pro Glu Asp Ile Thr Glu Thr Val Trp Trp Val Ala Asn Leu
      260      265      270
Pro Lys His Val Asn Ile Asn Thr Val Glu Met Met Pro Val Ser Gln
      275      280      285
Thr Tyr Ala Gly Leu Ser Val His Arg Gly
      290      295

```

<210> 10262

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 10262

```

Leu Ser Glu Lys Ser Gln Pro Met Ala Ala Glu Ser Gln Leu Asn Pro
1      5      10      15
Thr Gln Pro Val Asn Gln Gln Ile Tyr Arg Ile Leu Arg Arg Asp Ile
      20      25      30
Val Arg Cys Leu Ile Pro Pro Gly Thr Pro Leu Ser Glu Lys Glu Val
      35      40      45
Ser Val Arg Phe Asp Val Ser Arg Gln Pro Val Arg Glu Ala Phe Ile

```



```
<210> 10263
<211> 124
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10264
<211> 309
<212> PRT
<213> Enterobacter cloacae
```

<400> 10264															
Leu	Asn	Leu	Thr	Pro	Thr	Ala	Val	Arg	Arg	Gly	Thr	Pro	Pro	Ala	Thr
1				5					10					15	
Trp	Gln	Thr	Arg	Arg	Arg	Cys	Glu	Met	Gly	Ser	Gly	Trp	His	Glu	Trp
			20					25					30		
Pro	Leu	Met	Ile	Phe	Thr	Val	Phe	Gly	Gln	Cys	Val	Ala	Gly	Ala	Leu
		35					40					45			
Ile	Val	Met	Gly	Phe	Val	Trp	Leu	Lys	Glu	Asn	Asp	Asp	Lys	Ala	Arg
	50					55					60				

Met Arg Ile Val Arg Ser Leu Phe Phe Leu Trp Leu Val Met Gly Ile
 65 70 75 80
 Gly Phe Met Ala Ser Val Leu His Leu Gly Ser Pro Leu Arg Ala Phe
 85 90 95
 Asn Ser Leu Asn Arg Val Gly Ala Ser Ala Leu Ser Asn Glu Ile Ala
 100 105 110
 Ala Gly Ser Leu Phe Phe Ala Val Gly Gly Phe Trp Trp Leu Val Ser
 115 120 125
 Val Ile Gly Lys Met Pro Pro Ala Leu Gly Lys Ile Trp Leu Val Val
 130 135 140
 Ser Gln Leu Leu Gly Ile Val Phe Val Trp Ala Met Thr Arg Val Tyr
 145 150 155 160
 Gln Ile Glu Thr Val Pro Thr Trp Tyr Thr Gly Tyr Thr Thr Leu Ser
 165 170 175
 Phe Phe Leu Thr Met Val Leu Ala Gly Pro Leu Leu Ala Ala Leu Leu
 180 185 190
 Leu Arg Val Ala Asn Val Thr Phe Lys Gly Thr Leu Ala Ala Ser Val
 195 200 205
 Ser Val Leu Ala Ile Ile Val Cys Val Ala Val Val Val Leu Gln Ser
 210 215 220
 Asn Thr Leu Gly Thr Ile Gln Ser Ser Ile Gln Gln Ala Ser Ala Leu
 225 230 235 240
 Leu Pro Asp Tyr Gly Ser Leu Gln Val Trp Arg Ile Ala Leu Leu Ala
 245 250 255
 Ala Gly Leu Gly Cys Trp Ile Cys Pro Leu Ile Arg Arg Gln Glu Pro
 260 265 270
 Lys Thr Leu Gly Leu Phe Ala Gly Val Val Leu Val Ala Leu Gly Glu
 275 280 285
 Leu Ile Gly Arg Gly Leu Phe Tyr Gly Leu His Met Thr Ala Gly Leu
 290 295 300
 Ala Ile Ala Gly
 305

<210> 10265

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 10265

Ser Arg Leu Ser Lys Lys Arg Cys Thr Asp Asn Ser Thr Trp Leu Val
 1 5 10 15
 His Pro Leu Cys Arg Pro Gly Ser His Ile Phe Ala Ala Thr Gln Arg
 20 25 30
 His Asn Cys Tyr Thr Val Tyr Asn Tyr Ser Ile Arg Gly Cys Thr Met
 35 40 45
 Ala Val Glu Thr Lys Phe Val Val Arg Lys Gly Glu Glu Lys Met
 50 55 60
 Thr Phe Ala Ser Lys Lys Glu Ala Asp Ala His Asp Lys Leu Leu Asp
 65 70 75 80
 Met Ala Glu Ala Phe Thr Asp Trp Leu Leu Gln Ser Gly Met Gln Met
 85 90 95
 Asp Glu Thr Gln Ala Glu Asn Leu Gly Leu Tyr Leu Ala Glu Gln Lys
 100 105 110
 Glu Ser Val Gln His Ile Leu Arg Thr Ser Lys Leu Pro Glu Arg Asn
 115 120 125
 Ala Ala Thr Asp Lys Thr Ala Ser Asp Ala Asp Ser Lys Lys Ile
 130 135 140
 Arg Ala Val Lys Ala Ala
 145 150

<210> 10266

<211> 419

<212> PRT

<213> *Enterobacter cloacae*

<400> 10266

Tyr Ser Tyr Val Asp Cys Gly Arg Ala Asp Asp Leu Ser Phe Ser Asp
 1 5 10 15
 Cys Ala Arg Leu Val Ala Ala Pro Phe Ala Gly Gly Thr Asp Ser Glu
 20 25 30
 Gly Asp Ser Ile Met Ile Lys Leu Glu Asn Leu Thr Lys Gln Phe Ser
 35 40 45
 Gln Lys His Gly Gln Thr Phe Lys Ala Val Asp Asn Val Asn Leu Asn
 50 55 60
 Val Pro Glu Gly Glu Met Cys Val Leu Leu Gly Pro Ser Gly Cys Gly
 65 70 75 80
 Lys Thr Thr Thr Leu Lys Met Ile Asn Arg Leu Ile Thr Pro Ser Ser
 85 90 95
 Gly Thr Ile Leu Ile Asn Gly Glu Asp Thr Ser Gly Met Asp Thr Val
 100 105 110
 Thr Leu Arg Arg Asn Ile Gly Tyr Val Ile Gln Gln Ile Gly Leu Phe
 115 120 125
 Pro Asn Met Thr Ile Glu Glu Asn Ile Thr Val Val Pro Arg Met Leu
 130 135 140
 Gly Trp Asp Lys Ala Arg Cys Lys Ser Arg Ala Glu Leu Met Asp
 145 150 155 160
 Met Val Ala Met Asp Pro His Lys Phe Leu His Arg Tyr Pro Arg Glu
 165 170 175
 Met Ser Gly Gly Gln Gln Gln Arg Ile Gly Val Ile Arg Ala Leu Ala
 180 185 190
 Ala Asp Pro Pro Val Leu Leu Met Asp Glu Pro Phe Gly Ala Val Asp
 195 200 205
 Pro Ile Asn Arg Glu Val Ile Gln Asn Gln Phe Leu Glu Met Gln Arg
 210 215 220
 Lys Leu Lys Lys Thr Val Met Leu Val Ser His Asp Ile Asp Glu Ala
 225 230 235 240
 Leu Lys Leu Gly Asp Arg Ile Ala Val Phe Arg Gln Gly Arg Ile Val
 245 250 255
 Gln Cys Ala Ser Pro Asp Glu Leu Leu Ala Lys Pro Ala Asn Glu Phe
 260 265 270
 Val Gly Ser Phe Val Gly Gln Asp Arg Thr Leu Lys Arg Leu Leu Leu
 275 280 285
 Val Ser Ala Gly Asp Val Thr Asp Gln Gln Pro Thr Ile Thr Val Arg
 290 295 300
 Glu Ser Thr Pro Leu Pro Glu Ala Phe Ala Thr Met Asp Asp Asn Asp
 305 310 315 320
 Ile Arg Ala Ile Thr Val Val Asp Glu His Gly Lys Pro Leu Gly Phe
 325 330 335
 Val Lys Arg Arg Glu Ala Arg Asn Ala Ser Gly Ser Cys Gly Asp Ile
 340 345 350
 Leu His Pro Phe Arg Met Thr Gly Lys Ala Glu Asp Asn Leu Arg Val
 355 360 365
 Val Leu Ser Arg Leu Tyr Glu Ser Asn Thr Ser Trp Met Pro Ile Val
 370 375 380
 Asp Glu Asp Gly Arg Tyr Asn Gly Glu Ile Ser Gln Asp Tyr Ile Ala
 385 390 395 400
 Glu Tyr Leu Ser Ser Gly Arg Thr Arg Arg Ala Leu Asn Ile His Ser
 405 410 415
 Glu Ser

<210> 10267

<212> PRT

<213> Enterobacter cloacae

Ala	Phe	Arg	Pro	Gly	Thr	Ala	Arg	Pro	Phe	Ser	Ala	Arg	Ile	Pro	Phe
1				5					10					15	
Ala	Asn	Leu	Pro	Ile	Ser	Arg	His	Asn	Ile	Val	Ser	Ser	Pro	Leu	Asn
			20					25					30		
His	Asp	Phe	Met	Gln	Arg	Leu	His	Ala	Tyr	Pro	Asp	Ile	Arg	Ala	Met
		35					40					45			
Phe	Arg	Arg	Leu	Leu	Ile	Ala	Thr	Val	Thr	Gly	Val	Leu	Ala	Ala	Leu
	50					55				60					
Ala	Val	Ala	Val	Phe	Arg	His	Ser	Met	Tyr	Leu	Leu	Glu	Trp	Leu	Phe
65					70					75					80
Leu	Ser	Asn	Glu	Ser	Gly	Ser	Leu	Val	Asn	Ala	Ala	Ala	Ala	Leu	Ser
				85					90					95	
Pro	Trp	Arg	Arg	Ala	Leu	Thr	Pro	Ala	Leu	Gly	Gly	Leu	Ala	Ala	Gly
			100					105					110		
Met	Leu	Leu	Trp	Gly	Trp	Gln	Arg	Met	Thr	Ala	Gln	Arg	Pro	His	Ala
			115				120					125			
Pro	Thr	Asp	Tyr	Met	Glu	Ala	Leu	Glu	Thr	Gly	Asp	Gly	Gln	Phe	Asp
	130					135					140				
Tyr	Gly	Ala	Ser	Leu	Val	Lys	Ser	Leu	Ala	Ser	Leu	Val	Val	Ala	
145					150					155				160	
Ser	Gly	Ser	Ala	Ile	Gly	Arg	Glu	Gly	Ala	Met	Ile	Leu	Leu	Ala	Ala
				165					170					175	
Leu	Ala	Ala	Ser	Phe	Phe	Ala	Gln	Arg	Cys	Thr	Pro	Lys	Ser	Glu	Trp
			180					185					190		
Lys	Leu	Trp	Ile	Ala	Cys	Gly	Ala	Ala	Ala	Gly	Met	Ala	Ser	Ala	Tyr
		195					200					205			
His	Ala	Pro	Leu	Ala	Gly	Ser	Leu	Phe	Ile	Ala	Glu	Ile	Leu	Phe	Gly
	210					215					220				
Thr	Leu	Met	Leu	Ala	Ser	Leu	Gly	Pro	Val	Val	Ile	Ala	Ala	Val	Val
225					230					235				240	
Ala	Leu	Leu	Thr	Thr	Arg	Leu	Leu	Ser	Pro	Gly	Ala	Asn	Thr	Leu	Tyr
				245					250					255	
Asp	Val	His	Leu	Ser	Glu	Met	Leu	Thr	Ala	Val	Asp	Tyr	Phe	Leu	Ile
			260					265					270		
Val	Gly	Val	Gly	Leu	Leu	Ala	Gly	Val	Cys	Gly	Pro	Leu	Leu	Met	Trp
		275					280				285				
Leu	Met	Ala	Ala	Ser	His	Arg	Leu	Phe	Leu	Arg	Leu	Lys	Leu	Ser	Pro
	290					295					300				
Pro	Trp	Gln	Leu	Ala	Leu	Gly	Gly	Leu	Ile	Val	Gly	Leu	Leu	Ser	Leu
305					310					315					320
Leu	Thr	Pro	Lys	Val	Trp	Gly	Asn	Gly	Tyr	Ser	Val	Val	Gln	Ala	Phe
				325					330					335	
Leu	Gln	Ser	Pro	Pro	Leu	Leu	Ser	Val	Ile	Ala	Gly	Val	Phe	Ile	Cys
			340					345					350		

Arg Thr Leu Arg His Asp Ser Thr Tyr Gly Gln His Thr Ala Glu Ser
 450 455 460
 Arg Glu Ile Asp Val Val Arg
 465 470

<210> 10268

<211> 355

<212> PRT

<213> Enterobacter cloacae

<400> 10268

Ile Lys Asn Cys Ser Gly Thr Ser Met Ala Lys Pro Ile Ile Thr Leu
 1 5 10 15
 Asn Gly Leu Lys Ile Val Ile Met Leu Gly Met Leu Val Ile Ile Leu
 20 25 30
 Thr Gly Val Arg Phe Ala Ala Asp Ile Ile Val Pro Phe Ile Leu Ala
 35 40 45
 Leu Phe Ile Ala Val Ile Leu Asn Pro Leu Val Gln Arg Met Val Arg
 50 55 60
 Leu Arg Ile Pro Arg Val Leu Ala Ile Ser Leu Leu Ile Ser Ile Ile
 65 70 75 80
 Ile Val Ala Met Val Leu Leu Val Ala Tyr Leu Gly Thr Ser Leu Asn
 85 90 95
 Glu Leu Ala Arg Thr Leu Pro Thr Tyr Arg Ser Ser Leu Ala Thr Pro
 100 105 110
 Leu Leu Gln Ile Glu Pro Trp Leu Gln Arg Ala Gly Ile Glu Val Ser
 115 120 125
 Val Glu Glu Met Leu Lys Tyr Ile Asp Pro Asn Ala Ala Met Thr Ile
 130 135 140
 Val Thr Ser Leu Leu Ala Gln Leu Ser Asn Ala Met Thr Ser Ile Phe
 145 150 155 160
 Leu Leu Phe Leu Thr Val Val Phe Met Leu Leu Glu Val Pro Gln Leu
 165 170 175
 Pro Ala Lys Leu Gln His Ile Met Val Arg Pro Val Glu Gly Met Gly
 180 185 190
 Ala Ile Gln Arg Ala Leu Asp Ser Val Ser Arg Tyr Leu Val Leu Lys
 195 200 205
 Thr Ala Ile Ser Leu Val Thr Gly Leu Val Val Trp Gly Met Leu Ala
 210 215 220
 Ala Leu Asp Val Arg Phe Ala Phe Val Trp Gly Leu Leu Ala Phe Ala
 225 230 235 240
 Leu Asn Tyr Ile Pro Asn Ile Gly Ser Val Leu Ala Ala Ile Pro Pro
 245 250 255
 Ile Leu Gln Val Leu Val Phe Ser Gly Leu Tyr Asp Ala Leu Ile Leu
 260 265 270
 Leu Ala Gly Tyr Leu Val Ile Asn Leu Val Phe Gly Asn Ile Leu Glu
 275 280 285
 Pro Arg Ile Met Gly Arg Gly Leu Gly Leu Ser Thr Leu Val Val Phe
 290 295 300
 Leu Ser Leu Ile Phe Trp Gly Trp Leu Leu Gly Pro Val Gly Met Leu
 305 310 315 320
 Leu Ser Val Pro Leu Thr Ile Ile Val Lys Ile Gly Leu Glu Gln Thr
 325 330 335
 Ala Gly Gly Gln Ser Ile Ala Val Leu Leu Ser Asp Met Ser His Lys
 340 345 350
 Ala Asp
 355

<210> 10269

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10269

Gln Val Thr Ser Ala Met Ala Leu Ile Pro Lys Asn Tyr Ala Arg Leu
 1 5 10 15
 Glu Ser Gly Tyr Arg Glu Lys Ala Leu Lys Ile Tyr Pro Trp Val Cys
 20 25 30
 Gly Arg Cys Ser Arg Glu Phe Val Tyr Ser Asn Leu Arg Glu Leu Thr
 35 40 45
 Val His His Ile Asp His Asp His Thr Asn Asn Pro Glu Asp Gly Ser
 50 55 60
 Asn Trp Glu Leu Leu Cys Leu Phe Cys His Asp His Glu His Ser Lys
 65 70 75 80
 Tyr Thr Glu Ala Asp Gln Tyr Gly Thr Thr Val Val Ala Gly Glu Asp
 85 90 95
 Ala Gln Lys Asp Val Gly Val Ala Thr Phe Asn Pro Phe Ala Asp Leu
 100 105 110
 Lys Ala Met Met Asp Lys Lys Lys
 115 120

<210> 10270

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 10270

Lys Thr Val Gly Cys Ala Met Ala Ile Phe Asp Gly His Asn Asp Leu
 1 5 10 15
 Leu Leu Asn Leu Trp Leu His His Arg Gln Asp Pro Val Thr Ala Leu
 20 25 30
 Phe Ser Gly Ile Glu Asn Gly His Leu Asp Tyr Pro Arg Met Gln Gln
 35 40 45
 Gly Gly Phe Ser Gly Gly Leu Phe Ala Leu Phe Val Pro Pro Gln Glu
 50 55 60
 Tyr Ile Ala Arg Met Ala Pro Gln Tyr Ala Cys Glu Pro Trp Gln Pro
 65 70 75 80
 Val Asp Ile Leu Trp Gln Gln Leu Thr Leu Lys Gln Leu Val Ala
 85 90 95
 His Ser Asp Gly Arg Ala Arg Leu Cys Leu Ser Ala Ala Asp Ile Glu
 100 105 110
 Arg Cys Arg Gln Asp Lys Val Leu Ala Met Val Ala His Ile Glu Gly
 115 120 125
 Ala Gly Gly Phe Asp Gly Glu Gly Gly Asp Leu Gln Ala Leu Tyr Ala
 130 135 140
 Ala Gly Val Arg Ser Ile Gly Pro Phe Trp Asn Ile Ala Asn Arg Phe
 145 150 155 160
 Gly Thr Gly Val Asn Gly Ala Phe Pro Gly Ser Pro Asp Ser Gly Pro
 165 170 175
 Gly Leu Thr Ala Glu Gly Ile Ala Leu Ile Lys His Ala Asn Ala Leu
 180 185 190
 Asn Met Leu Ile Asp Val Ser His Met Asn Glu Lys Ala Phe Trp Asp
 195 200 205
 Thr Ala Arg His Ser Ser Ser Pro Leu Val Ala Thr His Ser Asn Ala
 210 215 220
 His Thr Leu Cys Pro Gln Pro Arg Asn Leu Thr Asp Arg Gln Leu Leu
 225 230 235 240
 Ala Ile Arg Asp Ser Gly Gly Val Ala Gly Val Asn Phe Gly Asn Ala
 245 250 255
 Phe Leu Arg Ala Asp Gly Lys Arg Asp Ser Asp Thr Pro Leu Ser Thr
 260 265 270
 Ile Val Arg His Ile Asp Tyr Leu Ile Asn Ile Met Gly Asp Asp His

275 280 285
 Val Ala Leu Gly Ser Asp Phe Asp Gly Ile Thr Leu Pro Asp Asp Leu
 290 295 300
 His Asp Val Ser Gly Leu Pro Arg Leu Ile Ser Ala Leu Arg Asp Ser
 305 310 315 320
 Gly Tyr Asp Gln Phe Val Leu Asn Lys Leu Leu Trp Gly Asn Trp Gln
 325 330 335
 Lys Val Leu Gln Asn Val Trp Gln Gln
 340 345

<210> 10271

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 10271

Arg Ala Val Ala Ala Ser Arg Pro Cys Ala Ala Gly Asn Arg Ser
 1 5 10 15
 Glu Leu Gly Arg Asp Glu His His Ala Ser Gly Leu Thr Met His Ile
 20 25 30
 Arg Glu Thr Leu Ser Pro Gln Glu Phe Glu His Ala Leu Arg Ala Lys
 35 40 45
 Gly Ala Tyr Tyr His Ile His His Pro Tyr His Ile Ala Met His Asn
 50 55 60
 Gly Glu Ala Ser Arg Glu Gln Ile Gln Gly Trp Val Ala Asn Arg Phe
 65 70 75 80
 Tyr Tyr Gln Thr Thr Ile Pro Leu Lys Asp Ala Ala Ile Met Ala Asn
 85 90 95
 Cys Pro Asp Pro His Thr Arg Arg Lys Trp Val Gln Arg Ile Leu Asp
 100 105 110
 His Asp Gly Ser Asn Gly His Asp Gly Gly Ile Glu Ala Trp Leu Gln
 115 120 125
 Leu Gly Glu Ala Val Gly Leu Ser Arg Glu Asp Leu Ile Ser Glu Arg
 130 135 140
 His Val Leu Pro Gly Val Arg Phe Ala Val Asp Ala Tyr Val Asn Phe
 145 150 155 160
 Ala Arg Arg Ala Asn Trp Gln Glu Ala Ala Cys Ser Ser Leu Thr Glu
 165 170 175
 Leu Phe Ala Pro Gln Ile His Gln Ser Arg Leu Asp Ser Trp Pro Gln
 180 185 190
 His Tyr Pro Trp Ile Lys Glu Glu Gly Tyr Phe Tyr Phe Arg Ser Arg
 195 200 205
 Leu Ser Gln Ala Ser Arg Asp Val Glu His Gly Leu Glu Leu Ala Lys
 210 215 220
 Arg Tyr Cys Asp Ser Ala Glu Lys Gln Asn Arg Met Leu Glu Ile Leu
 225 230 235 240
 Gln Phe Lys Leu Asp Ile Leu Trp Ser Met Leu Asp Ala Met Thr Met
 245 250 255
 Ala Tyr Ala Leu Gln Arg Pro Pro Tyr His Thr Val Thr Asp Lys Ala
 260 265 270
 Ala Trp His Thr Thr Arg Leu Val
 275 280

<210> 10272

<211> 395

<212> PRT

<213> Enterobacter cloacae

<400> 10272

Asn Ser Cys Lys Ser Leu Ile Asn Arg Ser Gly Leu Phe Ser Val Ser
 1 5 10 15

Gln Asn Lys Pro Ala Val Asn Pro Pro Leu Trp Leu Leu Ala Glu Leu
 20 25 30
 Thr Tyr Arg Cys Pro Leu Gln Cys Pro Tyr Cys Ser Asn Pro Leu Asp
 35 40 45
 Phe Ala Arg Gln Asp Gln Glu Leu Thr Thr Glu Gln Trp Ile Glu Val
 50 55 60
 Phe Arg Gln Ala Arg Ala Met Gly Ser Val Gln Ile Gly Phe Ser Gly
 65 70 75 80
 Gly Glu Pro Leu Thr Arg Lys Asp Leu Pro Glu Leu Ile Arg Ala Ala
 85 90 95
 Arg Asp Leu Gly Phe Tyr Thr Asn Leu Ile Thr Ser Gly Ile Gly Leu
 100 105 110
 Thr Glu Ser Lys Leu Asp Ala Phe Ser Glu Ala Gly Leu Asp His Ile
 115 120 125
 Gln Ile Ser Phe Gln Ala Ser Asp Glu Glu Leu Asn Ala Ala Leu Thr
 130 135 140
 Gly Asn Lys Lys Ala Phe Gln Gln Lys Leu Ala Met Ala Lys Ala Val
 145 150 155 160
 Lys Ala Arg Asp Tyr Pro Met Val Leu Asn Phe Val Leu His Arg His
 165 170 175
 Asn Ile Asp Gln Ile Asp Lys Ile Ile Glu Leu Cys Ile Glu Leu Asp
 180 185 190
 Ala Asp Asp Val Glu Leu Ala Thr Cys Gln Phe Tyr Gly Trp Ala Phe
 195 200 205
 Leu Asn Arg Gln Gly Leu Leu Pro Thr Arg Glu Gln Ile Ala Arg Ala
 210 215 220
 Glu Arg Val Val Ala Glu Tyr Arg Gln Lys Met Ala Ala Ser Gly Asn
 225 230 235 240
 Leu Thr Asn Leu Leu Phe Val Thr Pro Asp Tyr Tyr Glu Glu Arg Pro
 245 250 255
 Lys Gly Cys Met Gly Gly Trp Gly Ser Ile Phe Leu Ser Val Thr Pro
 260 265 270
 Glu Gly Thr Ala Leu Pro Cys His Ser Ala Arg Gln Leu Pro Val Asp
 275 280 285
 Phe Pro Ser Val Leu Glu Gln Ser Leu Glu Ser Ile Trp Tyr Asp Ser
 290 295 300
 Phe Gly Phe Asn Arg Tyr Arg Gly Phe Asp Trp Met Pro Glu Pro Cys
 305 310 315 320
 Arg Ser Cys Asp Glu Lys Glu Lys Asp Phe Gly Gly Cys Arg Cys Gln
 325 330 335
 Ala Phe Met Leu Thr Gly Asn Ala Asp Asn Ala Asp Pro Val Cys Ser
 340 345 350
 Lys Ser Pro His His His Lys Ile Leu Glu Ala Arg Arg Glu Ala Ala
 355 360 365
 Cys Ser Asp Met Lys Ile Gly Gln Leu Gln Phe Arg Asn Arg Thr Arg
 370 375 380
 Ser Gln Leu Ile Tyr Lys Thr Arg Glu Leu
 385 390 395

<210> 10273

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 10273

Gln Gln Asp Arg Phe Arg Met Thr Asp Asn Asn Thr Ala Leu Lys Lys
 1 5 10 15
 Ala Gly Leu Lys Val Thr Leu Pro Arg Leu Lys Ile Leu Glu Val Leu
 20 25 30
 Gln Gly Pro Asp Asn His His Val Ser Ala Glu Asp Leu Tyr Lys Arg
 35 40 45

Leu Ile Asp Met Gly Glu Glu Ile Gly Leu Ala Thr Val Tyr Arg Val
 50 55 60
 Leu Asn Gln Phe Asp Asp Ala Gly Ile Val Thr Arg His Asn Phe Glu
 65 70 75 80
 Gly Gly Lys Ser Val Phe Glu Leu Thr Gln Gln His His His Asp His
 85 90 95
 Leu Ile Cys Leu Asp Cys Gly Lys Val Ile Glu Phe Ser Asp Asp Ser
 100 105 110
 Ile Glu Ser Arg Gln Arg Glu Ile Ala Ala Arg His Gly Ile Arg Leu
 115 120 125
 Thr Asn His Ser Leu Tyr Leu Tyr Gly His Cys Ala Glu Gly Asp Cys
 130 135 140
 Arg Glu Asn Glu His Ala His Asp Ala Lys
 145 150 155

<210> 10274

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10274

Arg Arg Arg Ile Ala Pro Val Leu Lys Leu Arg Lys Asn Pro Pro Glu
 1 5 10 15
 Lys Ile Glu Ala Phe Lys Ser Val Leu Asn Val Leu Lys Lys Glu Lys
 20 25 30
 Ala His Glu Gln Phe Ala Thr Gln Glu Asn Val Arg Val Met Asp Tyr
 35 40 45
 Gln Ala Cys Ile Gln Ala Arg Lys Thr Gly Asn Asp Gln Glu Val Ala
 50 55 60
 Lys Arg Cys Asp Lys Ile Trp Asn Glu Ile Arg Asn Asn Asn Lys
 65 70 75 80

<210> 10275

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 10275

Lys Ile Asp Ser Met Tyr Asn Leu Arg Met Tyr Ser Arg Ile Gly Arg
 1 5 10 15
 Arg Asn Pro Leu Tyr Ser Thr Ala Ile Gly Lys Val Leu Leu Ala Trp
 20 25 30
 Arg Asp Arg Glu Glu Val Lys Gln Ile Leu Asp Gly Val Glu Tyr Lys
 35 40 45
 Arg Ser Thr Asp Arg Thr Ile Thr Ser Thr Asp Glu Leu Leu Ser Val
 50 55 60
 Leu Asp Asn Val Arg Glu Gln Gly Tyr Gly Glu Asp Asn Glu Glu Gln
 65 70 75 80
 Glu Glu Gly Leu Arg Cys Ile Gly Val Pro Val Phe Asp Arg Phe Gly
 85 90 95
 Val Val Ile Ala Gly Leu Ser Ile Ser Phe Pro Thr Leu Arg Phe Ser
 100 105 110
 Glu Glu Arg Leu His Glu Tyr Val Ala Ile Leu His Thr Ala Ala Arg
 115 120 125
 Lys Ile Ser Glu Gln Met Gly Tyr Asn Asp Tyr Pro Phe
 130 135 140

<210> 10276

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 10276

```

Thr Met Ala Thr Phe His Ile Ser Phe Lys Lys Leu Arg Arg Ser Glu
1          5          10          15
Gly Lys Ser Ser Val Tyr Leu Ser Ala Tyr Gln Asn Arg Glu Lys Thr
          20          25          30
Lys Asp Asn Arg Thr Gly Ala Thr Trp Asp Tyr Ser Lys Lys Glu Gly
          35          40          45
Phe Phe Gly Ser Ala Ile Leu Ser Pro Ala Gly Thr Pro Ala Glu Leu
          50          55          60
Val Lys Asp Ser Gly Thr Leu Trp Asn Ala Val Glu Ala Gly Glu Lys
65          70          75          80
Arg Lys Asp Ala Glu Leu Cys Arg Tyr Leu Asp Ile Ala Ile Pro Lys
          85          90          95
Glu Leu Asp Asp Gly Gln Lys Lys Gln Ile Val Leu Asp Tyr Cys Gln
          100          105          110
Glu Asn Phe Val Asp Tyr Ala
          115

```

<210> 10277

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 10277

```

Met Arg Tyr Ile His Met Ser Glu Tyr Ile Lys Val Phe Leu Ala Leu
1          5          10          15
Cys Ser Phe Val Phe Thr Gly Thr Leu Ala His Ala Ala Ser Ser Gly
          20          25          30
Thr Ile Thr Phe Thr Gly Ser Val Asn Ser Glu Thr Cys Ala Ala Val
          35          40          45
Val Asn Asn Gly Asn Ala Asp Ala Thr Val Thr Leu Pro Ala Val Pro
          50          55          60
Thr Ser Ala Leu Ser Ala Ala Gly Ala Thr Ala Gly Ala Thr Thr Phe
65          70          75          80
Thr Ile Asn Leu Thr Gly Cys Glu Phe Tyr Pro Ser Gly Ala Lys Val
          85          90          95
Gln Arg Tyr Phe Gln
          100

```

<210> 10278

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10278

```

Ile Met Leu Ser Ala Ala Arg Gly Glu Asp Gln Met Asn Ile Pro Tyr
1          5          10          15
Arg Phe Ala Asp Asn Gly Gly Ala Leu Glu Val Pro Ala Asp Lys Val
          20          25          30
His Glu Leu Arg Leu Arg Leu Ala Gln Gln Gly Leu Pro Lys Gly Gly
          35          40          45
Ala Val Gly Phe Glu Leu Leu Asp Gln Glu Lys Phe Gly Ile Ser Gln
          50          55          60
Phe Ser Glu Gln Val Asn Tyr Gln Arg Ala Leu Glu Gly Glu Leu Ala
65          70          75          80
Arg Thr Ile Glu Thr Leu Gly Pro Val Lys Ser Ala Arg Val His Leu
          85          90          95
Ala Met Pro Lys Pro Ser Leu Phe Val Arg Glu Gln Lys Ser Pro Ser
          100          105          110
Ala Ser Val Thr Val Asn Leu Glu Pro Gly Arg Ala Leu Val Ser Gly

```

```

      115              120              125
Gly Val Met Arg Leu His Glu Ser Pro Ile Ile Cys Ser Thr Ser Ala
      130              135              140
Ala Thr Ser Cys Pro Ala Arg Arg
      145              150

```

<210> 10279

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 10279

```

Pro Ser Asp Asn Ser Ala Met Leu Glu Lys Ala Ile Ala Ala Val Ala
1      5      10
Ala Ala Met Thr Asp Pro Ser Arg Val Lys Met Leu Cys Ala Leu Met
      20      25      30
Asp Gly Arg Ala Trp Thr Ala Thr Glu Leu Ser Ala Ala Ala Asp Val
      35      40      45
Ala Pro Ser Thr Ala Ser Gly His Leu Ala Arg Leu Val Glu Gly Gln
      50      55      60
Leu Ile Thr Cys Leu Ser Gln Gly Arg His Arg Tyr Tyr Arg Leu Ala
      65      70      75      80
Gly His Asp Val Ala Ala Leu Val Glu Gln Met Met Gly Leu Ser Trp
      85      90      95
Ser Arg Ile Thr Pro Pro Glu Thr Ser Ala Arg Pro Gly Ser Arg Leu
      100      105      110
Thr Val Thr Glu Ala Glu Gly Asp Phe Cys Ser Arg Thr Asn Arg Asp
      115      120      125
Gly Leu Gly Ile Ala Arg Cys Thr Arg Ala Leu Phe Thr Gly Pro Lys
      130      135      140
Val Ser Ile Val Arg Ala Ser Ser Pro Ser Ser Ala Arg Trp
      145      150      155

```

<210> 10280

<211> 248

<212> PRT

<213> Enterobacter cloacae

<400> 10280

```

Arg Leu Leu Gly Lys Lys Glu Pro Thr Val Asn Ala Pro Val Arg Gly
1      5      10
Leu Tyr Met Trp Gly Gly Val Gly Arg Gly Lys Thr Trp Leu Met Asp
      20      25      30
Met Phe Tyr Gln Ser Leu Pro Gly Thr Arg Lys Gln Arg Leu His Phe
      35      40      45
His Arg Phe Met Leu Arg Val His Glu Glu Leu Thr Ala Leu Gln Gly
      50      55      60
Glu Thr Asp Pro Leu Glu Ile Val Ala Asp Arg Phe Lys Ala Glu Thr
      65      70      75      80
Asp Val Leu Cys Phe Asp Glu Phe Phe Val Ser Asp Ile Thr Asp Ala
      85      90      95
Met Leu Leu Gly Gly Leu Met Lys Ala Leu Phe Ala Arg Gly Ile Thr
      100      105      110
Leu Val Ala Thr Ser Asn Ile Pro Pro Asp Glu Leu Tyr Arg Asn Gly
      115      120      125
Leu Gln Arg Ala Arg Phe Leu Pro Ala Ile Asp Ala Ile Lys Gln His
      130      135      140
Cys Asp Ile Met Asn Val Asp Ala Gly Val Asp Tyr Arg Leu Arg Thr
      145      150      155      160
Leu Thr Gln Ala His Leu Trp Leu Ser Pro Leu Asn Ala Asp Thr Ala
      165      170      175

```

Ser Glu Met Asp Lys Leu Trp Leu Ala Leu Ala Gly Ala Pro Arg Asp
 180 185 190
 Lys Ala Pro Ala Leu Glu Ile Asn His Arg Pro Leu Ser Thr Leu Gly
 195 200 205
 Val Glu Asn Gln Thr Leu Ala Val Ser Phe Ala Thr Leu Cys Val Asp
 210 215 220
 Ala Arg Ser Gln His Asp Tyr Gly Pro Leu Ser His Leu Gly Leu Asn
 225 230 235 240
 Gln Pro Asp Arg Met Ile Tyr Gly
 245

<210> 10281

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10281

Trp Arg Asn Cys Val Arg Ile Glu Thr Ser Leu Phe Thr Thr Pro Glu
 1 5 10 15
 Cys Met Lys Ala Ile Thr Leu Tyr Asp Val Ala Arg Val Ala Gly Val
 20 25 30
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 35 40 45
 Lys Lys Lys Lys Lys Val Arg Gln Ala Met Ala Ala Leu His Tyr
 50 55 60
 Val Pro Asn Arg Gly Ala Gln Gln Leu Ala Gly Lys Arg Thr Arg Thr
 65 70 75 80
 Leu Gly Leu Met Thr Ser Asp Leu Ala Leu His Ala Pro Ser Gln Met
 85 90 95
 Ala Ser Gly Leu His Leu Glu Gly Ser Arg Asn Arg Glu Ser Thr Ile
 100 105 110

<210> 10282

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 10282

Ile Pro Met Arg His Phe Pro Gly Leu Gly Ile Ile Ser Lys Leu Ile
 1 5 10 15
 Val Leu Phe Met Pro Ala Asp Ala Ser Met Ala Val Ile Pro Glu Leu
 20 25 30
 Thr Ser Val Pro Val Arg Ile Thr Leu Leu Val Ser Gly Ile Val Val
 35 40 45
 Asn Ala Leu Ala Thr Gly Met Tyr Ile Gly Ala Gly Phe Gly Ala Gly
 50 55 60
 Pro Arg Asp Gly Leu Met Thr Gly Ile His Ala Arg Leu Gly Trp Ser
 65 70 75 80
 Ile Arg Ser Val Arg Thr Ala Ile Glu Val Thr Val Leu Ile Val Gly
 85 90 95
 Tyr Leu Leu Gly Gly Ala Phe Gly Val Gly Thr Val Leu Tyr Ala Leu
 100 105 110
 Thr Ile Gly Pro Leu Ile Gln Leu Cys Leu Pro Trp Phe Arg Gln Arg
 115 120 125
 Pro Arg Ile Gln Lys Ala Ala Gln Pro Glu Arg Ile Val
 130 135 140

<210> 10283

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 10283

```

Asn Ser Leu Cys Gly Asp Trp Gln Arg Ser Leu Met Met Ile Thr Met
1      5      10      15
Ala Lys Asn Leu Gly Phe Ser Lys Ala Thr Leu Arg Lys Val Gly Ala
20      25      30
Asn Ser Asp Gly Asp Gly Phe Leu Cys Phe Ala Ala His Gly Asn Ser
35      40      45
Met Glu Pro Val Ile Ala Asp Gly Ser Thr Val Ala Ile Asn Cys His
50      55      60
Asp Lys Arg Ile Val Asp Gly Lys Ile Tyr Gly Ile Asn Gln Gly Gly
65      70      75      80
Trp Lys Arg Leu Lys Ile Leu Tyr Arg Ser Gly Pro Asp Lys Val Thr
85      90      95
Ile Arg Ser Tyr Asn Ser Asp Glu Tyr Pro Asp Glu Glu Val Asp Met
100      105      110
Asp Ser Leu Glu Val Leu Gly Arg Leu Phe Trp Val Ser Thr Ile Phe
115      120      125

```

<210> 10284

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 10284

```

Arg Phe Phe Gly Asp Ala Met Arg Gln Leu Gln Pro Lys Thr Asn Ala
1      5      10      15
Val Phe Gly Gly Gln Tyr His Ile Ala Gly Arg Asp Val Thr Tyr Glu
20      25      30
Pro Ala Thr Gln Ala Asp Gly Gln Phe Ala Ala Lys Gly Glu Val Ile
35      40      45
Thr Ala Lys Trp Val Glu Ala Glu Gln Leu Phe Gly Cys Leu Arg Gln
50      55      60
Phe Asn Gly Asp Val Ser Leu Gln Pro Gly Leu Val His Arg Ala Asn
65      70      75      80
Gly Gly Leu Leu Leu Ile Ser Leu Arg Thr Leu Leu Ala Gln Pro Leu
85      90      95
Leu Trp Met Arg Leu Lys Thr Val Val Thr Gln Gln Arg Phe Asp Trp
100      105      110
Val Gly Tyr Asp Asp Ser Arg Pro Leu Pro Val Ser Ile Pro Ser Met
115      120      125
Pro Leu Ser Met Thr Val Val Leu Thr Gly Asp Arg Glu Ser Leu Ala
130      135      140
Asp Leu Gln Glu Met Glu Pro Glu Leu Ala Glu Gln Ala Val Tyr Ser
145      150      155      160
Glu Phe Glu Asp Asn Ile Gln Ile Ala Asp Ala Asp Asp Met Ala Gln
165      170      175
Trp Cys Gln Trp Val Met Ala Val Ala Glu Arg Phe Ala Leu Pro Ser
180      185      190
Pro Ala Glu Asp Ala Trp Pro Gly Leu Ile Arg Glu Ala Val Arg Tyr
195      200      205
Thr Gly Asp Gln Glu Thr Leu Pro Leu Cys Pro Leu Trp Ile Gly Lys
210      215      220
Gln Leu Arg Glu Val Gly Val Ile Ser Gly Asn Gly Pro Phe Thr Gly
225      230      235      240
Glu Gln Leu Ser Gln Met Leu Ala Gln Arg Glu Trp Arg Glu Gly Tyr
245      250      255
Leu Ala Asp Arg Met Gln Asp Glu Ile Leu Leu Glu Gln Ile Leu Val
260      265      270

```

Glu Thr Glu Gly Glu Arg Ile Gly Gln Ile Asn Ala Leu Ser Val Ile
 275 280 285
 Glu Phe Pro Gly His Pro Arg Ala Phe Gly Glu Pro Ser Arg Ile Ser
 290 295 300
 Cys Val Val His Ile Gly Asp Gly Glu Phe Thr Asp Ile Glu Arg Lys
 305 310 315
 Ala Glu Leu Gly Gly Asn Ile His Ala Lys Gly Met Met Ile Met Gln
 325 330 335
 Ala Phe Leu Met Ser Glu Leu Gln Leu Glu Gln Gln Ile Pro Phe Ser
 340 345 350
 Ala Ser Leu Thr Phe Glu Gln Ser Tyr Ser Glu Val Asp Gly Asp Ser
 355 360 365
 Ala Ser Met Ala Glu Leu Cys Ala Val Ile Ser Ala Leu Ala Asp Val
 370 375 380
 Pro Ile Asn Gln Asn Ile Ala Ile Thr Gly Ser Val Asp Gln Phe Gly
 385 390 395
 Arg Ala Gln Pro Val Gly Gly Leu Asn Glu Lys Ile Glu Gly Ser Ser
 405 410 415
 Gln Ser Ala Ser Ser Pro Thr Gly Ala Gly Arg Ser Cys Ala
 420 425 430

<210> 10285

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 10285

Arg Arg Val Ser Pro Leu Cys Arg Leu Ser Asn Phe Ser Leu Gly Gln
 1 5 10 15
 Arg Thr Leu Leu Lys Phe Cys Pro Val Cys Ala Arg Glu Asp Thr Phe
 20 25 30
 His Tyr Gly Val Thr Tyr Trp His Leu Ala His Gln Leu His Gly Val
 35 40 45
 Thr Thr Cys His Arg His Pro Val Ala Leu Glu Ser Ile His Val Pro
 50 55 60
 Ser Ser Pro His Ile Arg Ile Gly Leu Met Pro Pro Val Ser Tyr Thr
 65 70 75 80
 Glu Gln Leu Ser Asn Glu Ile Asp Phe Asp Phe Ala Lys Phe Cys Tyr
 85 90 95
 Glu Ser Leu Asn Ile Ile Arg Arg Lys Asp Ile Thr His Pro Asn Tyr
 100 105 110
 Met Asp Val Leu Lys Lys Leu Asn Leu Leu Ser Leu Asp Gly Asn Leu
 115 120 125
 Lys Lys Asn Val Phe Tyr Ala His Val Tyr Ala Lys Cys Gln Leu Phe
 130 135 140
 Gly Glu Gly Ser Ser Gly Leu Ile Pro Thr Ser Leu Thr Asp Tyr His
 145 150 155 160
 Tyr Trp Glu Pro Ile Leu Lys Asp Lys Cys Cys Gln His Pro Thr Lys
 165 170 175
 His Leu Leu Leu Cys Tyr Cys Leu Leu Asn Thr Cys Trp Pro Thr Tyr
 180 185 190
 Ala Gly Ser Arg Thr Asn Lys Lys Lys Glu Ile Phe Lys Ser His Lys
 195 200 205
 Lys Tyr Ser Phe His Ile Val Glu Asn Asn Thr Ser Val Ser Asn Leu
 210 215 220
 Gly Lys Glu Phe Ser Arg Ser Arg Cys Tyr Ile Lys Thr Leu Ile Tyr
 225 230 235 240
 Lys Lys Tyr Leu Arg Ala Phe Lys Arg Asn Thr Lys Ile Asn Ile Phe
 245 250 255
 Thr Glu Leu Leu Ile Lys Ser Met Ala Val Arg Gly Phe Ser Leu Ala
 260 265 270

Ser Ile Ala Glu Lys Asn Ser Leu Ser Glu Gly Ala Val Ser Ser Val
 275 280 285
 Ile Ser Ser Cys Tyr Gly Leu Cys Ser Trp Arg Lys Lys Cys Lys Lys
 290 295 300
 Asp Ser Leu Arg Arg Arg His Lys Gln Lys Ile Leu Arg Phe Ile His
 305 310 315 320
 Asn Gln Ser Val Ser Ile Thr Arg Lys Leu Val Asn Leu His Asp Gly
 325 330 335
 Ala Glu Arg Lys Arg Ala Thr
 340

<210> 10286

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 10286

Thr Leu Gln Pro Val Val Lys Met Ser Glu Lys Arg Ala Gln Ser Val
 1 5 10 15
 Val Asp Tyr Leu Val Ser Lys Gly Ile Pro Ala Asn Lys Ile Ser Pro
 20 25 30
 Arg Gly Met Gly Glu Ser Asn Pro Val Thr Gly Ser Thr Cys Asp Asn
 35 40 45
 Val Lys Pro Arg Ala Ala Leu Ile Asp Cys Leu Ala Pro Asp Arg Arg
 50 55 60
 Val Glu Ile Glu Val Lys Gly Ile Lys Asp Val Val Thr Gln Pro Ala
 65 70 75 80
 Ala

<210> 10287

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 10287

Thr Glu Leu His Gly Asn Thr Glu Ile Ala Met Lys Tyr Gln Gln Leu
 1 5 10 15
 Glu Asn Leu Glu Ser Gly Trp Lys Trp Lys Tyr Leu Val Lys Lys His
 20 25 30
 Arg Glu Gly Glu Leu Ile Thr Cys Tyr Ile Glu Ala Ser Ala Ala Gln
 35 40 45
 Glu Ala Val Asp Met Leu Leu Thr Leu Glu Asn Glu Pro Val Leu Val
 50 55 60
 Asn Gly Trp Ile Glu Lys His Ile Asn Pro Ala Leu Leu Asn Arg Met
 65 70 75 80
 Lys Gln Thr Ile Arg Ala Arg Arg Lys Arg His Phe Asn Ala Glu His
 85 90 95
 Gln His Thr Arg Lys Lys Ser Ile Asp Leu Glu Phe Met Val Trp Gln
 100 105 110
 Arg Leu Ala Gly Leu Ala Gln Arg Arg Gly Lys Thr Leu Ser Glu Thr
 115 120 125
 Val Val Gln Leu Ile Glu Asp Ala Glu His Lys Glu Lys Tyr Ala Ser
 130 135 140
 Gln Met Ser Thr Leu Lys Asn Asp Leu Gln Ala Leu Leu Gly Lys Lys
 145 150 155 160

<210> 10288

<211> 66

<212> PRT

<213> *Enterobacter cloacae*

<400> 10288

Ile Ser Lys Gln Ile Lys Ile Ile Gly Glu Ala Ala Arg Arg Asp Tyr
 1 5 10 15
 Asn Val Thr Glu Val Ala Asn Met Leu Tyr Thr Phe Pro Val Gly Pro
 20 25 30
 Gly Phe Gln Pro Arg Gly Asn Ile Pro Ala Ser His Gly Arg Arg Glu
 35 40 45
 Phe Arg Val Leu Glu Ile Phe Ile Pro Ser Ala Ala Ser Ala Cys Trp
 50 55 60
 Val
 65

<210> 10289

<211> 274

<212> PRT

<213> *Enterobacter cloacae*

<400> 10289

Gly Ile Gly Asp Phe Tyr Pro Val Arg Gly Lys Arg Leu Leu Gly Met
 1 5 10 15
 Thr Glu Pro Gly Lys Ala Leu Leu Thr Ile Ala Glu Arg Ile Leu Asn
 20 25 30
 Glu Ala Gly Asn Val Arg Arg Leu Ala Asp Leu Phe Thr Asn Asp Ala
 35 40 45
 Ser Gly Val Met Thr Ile Ala Thr Thr His Thr Gln Ala Arg Tyr Ser
 50 55 60
 Leu Pro Thr Val Ile Lys Ala Phe Arg Glu Ile Phe Pro Asp Val Arg
 65 70 75 80
 Leu Glu Leu Ile Gln Gly Thr Pro Gln Glu Ile Glu Val Leu Met His
 85 90 95
 Asn Gly Gly Ala Asp Ile Gly Ile Ala Ser Glu Arg Leu Ser Asn Asp
 100 105 110
 Pro Leu Leu Val Ala Phe Pro Trp Phe Arg Trp His His Ser Leu Leu
 115 120 125
 Leu Pro Ala Asp His Pro Leu Asn Gln Val Ser Pro Leu Thr Leu Glu
 130 135 140
 Glu Ile Val Lys Trp Pro Leu Ile Thr Tyr Arg Gln Gly Ile Thr Gly
 145 150 155 160
 Arg Ser Arg Ile Asp Glu Ala Phe Lys Arg Lys Gly Leu Thr Pro Asp
 165 170 175
 Val Val Leu Ser Ala Gln Asp Ser Asp Val Ile Lys Thr Tyr Val Glu
 180 185 190
 Leu Gly Leu Gly Ile Gly Leu Val Ala Glu Gln Ser Gly Gly Glu Tyr
 195 200 205
 Glu Ala Gly Asn Leu Val Arg Leu Asp Thr Arg His Leu Phe Asp Ala
 210 215 220
 Asn Thr Val Trp Leu Gly Leu Lys Arg Gly Gln Leu Gln Arg Lys Tyr
 225 230 235 240
 Val Trp Arg Phe Ile Glu Leu Cys Asn Ala Gly Leu Ser Val Asp Glu
 245 250 255
 Ile Lys Arg Gln Val Met Glu Pro Glu Glu Val Ala Ile Asp Tyr Gln
 260 265 270
 Ile

<210> 10290

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10290

```

Asp Thr Val Glu Ser Met Val Arg Ala Leu Arg Thr Gly Asn Tyr Ser
1          5          10          15
Val Val Ile Gly Trp Leu Pro Glu Asp Leu Ser Gln Glu His Leu
20          25          30
Arg Leu Thr Glu Ala Ala Glu Glu Gly Asn Ala Met Gly Phe Ile Met
35          40          45
Arg Pro Val Arg Gly Asp Ser Tyr Arg Arg Gly Gln His Pro Gly Leu
50          55          60
Lys Ile His Ser Asn Val Tyr His
65          70

```

<210> 10291

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 10291

```

Ile Thr Gln Ile Phe Met Glu Phe Ile Met Phe Lys Ser Ile Met Thr
1          5          10          15
Val Ser Leu Leu Ala Ala Ala Ile Ala Ser Thr Ser Ala Val Ala Ala
20          25          30
Asp Asn Ser Ala Gly Gly Ile Ile Asn Phe Thr Gly Ala Ile Thr Asp
35          40          45
Thr Thr Cys Thr Ile Asn Gly Gly Lys Ser Ala Asp Phe Thr Val Ala
50          55          60
Leu Ser Pro Ile Ser Val Lys Asp Ala Gly Thr Thr Val Gly Leu Ile
65          70          75          80
Thr Lys Asn Lys Lys Ser Ile Ala Leu Thr Phe Ser Gly Cys Ser Pro
85          90          95
Ala Ala Gly Thr Thr Gly Thr Pro Leu Lys Val Tyr Phe Ser Ser Ala
100          105          110
Asp Asn Ile Ser Thr Asp Gly Lys Tyr Leu Leu Asn Asn Ser Val Asn
115          120          125
Glu Ser Asp Ala Ser Val Ala Arg Asn Val Gly Phe Ala Leu
130          135          140

```

<210> 10292

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 10292

```

Gly Ser Gly Pro Ala Leu Lys Pro Arg Leu Arg Ser Ile Gly Ala Ala
1          5          10          15
Val Asp Pro Arg Arg Asp Arg Pro Arg Ala Pro Val Thr Ala Arg Ile
20          25          30
Gly Ala Arg Gly Val Pro Ala Arg Phe Asp Arg Thr Ser Thr His Arg
35          40          45
Arg Gly Met Leu Ala Lys Val His Ile Ala Lys Val Gln Leu Gly Met
50          55          60
Ser Asp Asp Asp Tyr Val Ala Val Leu Leu Arg Ala Thr Gly Arg Thr
65          70          75          80
Ser Ala Ala Glu Cys Thr Asp Arg Glu Leu Asp Asp Ala Leu Arg Glu
85          90          95
Phe Lys Arg Leu Gly Phe Glu Pro Gln Ala Arg Ser Pro Lys Ala Ala
100          105          110
Lys Pro Ala Asp His Pro Leu Ala Leu Lys Ala Arg Ala Leu Trp Ile
115          120          125

```

Ser Leu His His Leu Cys Ala Ile Ala Asp Pro Ser Glu Lys Ala Leu
 130 135 140
 Glu Ala Phe Ala Arg Arg Gln Leu Gly Cys Asp Arg Leu Gln Trp Ala
 145 150 155 160
 Asn Gln Ser Gln Gly His Arg Leu Ile Glu Ala Leu Lys Ala Ile Ala
 165 170 175
 Ala Arg His Gly Trp Asn Leu Ala Met Asp Gly Val Lys Pro Glu Ala
 180 185 190
 Val Leu Ile Val Thr Lys Arg Arg Leu Val Asp Ala Ile Ala Arg Gln
 195 200 205
 Ala Ala Arg Ala Arg His Arg Ala Gly Arg Val Glu Arg Ala Glu Asp
 210 215 220
 Arg Thr Ala Ala Asp Arg Asp Arg Gly Arg Leu Asp Pro Val Arg Asn
 225 230 235 240
 Arg Arg Gly Thr Gly Pro His Arg Pro Gly Ala Pro Ala Pro Ser Cys
 245 250 255
 Gly Arg Arg Trp Arg Pro Gly Tyr Asp Arg Ala Arg His Pro Arg Ile
 260 265 270
 Cys Arg Ala Val Ser Arg Ala Ala Ala Leu Pro Gly Met Trp Pro Leu
 275 280 285
 Ala Leu Ala Gly Arg Thr Val Leu Gly Gly Met Arg Met Val Pro Pro
 290 295 300
 Arg Ala Ala Pro Cys Ala Gly Arg Ala Gly Ala Asp Arg Gly Met Thr
 305 310 315 320
 Thr Gln Thr Gln Ile Val Ser Arg Asn Glu Gln Ile Glu Glu Leu Ala
 325 330 335
 Ala Arg Pro Val Phe
 340

<210> 10293

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10293

Cys Cys Leu Arg Val Leu Ala Ala Ala Arg Arg Pro Ala Val Phe Leu
 1 5 10 15
 Ala Arg Val Leu Val Glu Arg Phe Pro Leu Cys Leu Gly Phe Leu Gly
 20 25 30
 Leu Val Ser Phe Gly Ala Gly Gly Leu Tyr Ile Gly Leu Arg Thr Ile
 35 40 45
 Pro Val Ile Phe Asp Ile Ile Lys Asp Val Glu Asp Ile Cys Pro Asn
 50 55 60
 Ala Trp Val Ile Asn Phe Thr Asn Pro Ala Gly Met Val Thr Glu Ala
 65 70 75 80
 Val Tyr Arg His Thr Gly Phe Lys Arg Phe Ile Gly Val Cys
 85 90

<210> 10294

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 10294

Ile Ala Phe Pro Ala Ser Pro Val Gly Leu Arg His Leu Lys Val Ser
 1 5 10 15
 Val Ile Arg Phe Leu Val Phe Pro Val Cys Glu Phe Trp Leu Val Asp
 20 25 30
 Val Asp Asp Gly Leu Glu Leu Leu Ile Phe Phe Phe Val Leu Cys Phe
 35 40 45
 Arg Leu Val Asp Phe Ala Gly Val Pro Phe Ser Leu Leu Phe Ser Leu

```
<210> 10295
<211> 229
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10296
<211> 193
<212> PRT
<213> Enterobacter cloacae
```

<400> 10296																
Ala	Gly	Val	Asn	Val	Pro	Asp	Ser	Val	Phe	Tyr	Thr	Ser	Ala	Met	Ala	
1			5						10					15		
Thr	Ala	Asp	Phe	Leu	Lys	Arg	Gln	Glu	Gly	Lys	Lys	Ala	Tyr	Val	Val	
			20					25					30			
Gly	Glu	Gly	Ala	Leu	Ile	His	Glu	Leu	Tyr	Lys	Ala	Gly	Phe	Thr	Ile	
		35					40					45				
Thr	Asp	Val	Asn	Pro	Asp	Phe	Val	Ile	Val	Gly	Glu	Thr	Arg	Ser	Phe	
	50					55					60					

Asn Trp Glu Met Met His Lys Ala Ala Tyr Phe Val Ala Asn Gly Ala
 65 70 75 80
 Arg Phe Ile Ala Thr Asn Pro Asp Thr His Gly Arg Gly Phe Tyr Pro
 85 90 95
 Ala Cys Gly Ala Leu Cys Ala Gly Ile Glu Lys Ile Ser Gly Arg Lys
 100 105 110
 Pro Phe Val Val Gly Lys Pro Ser Trp Ile Ile Arg Ala Ala Leu
 115 120 125
 Asn Thr Met Gln Ala His Ser Glu Glu Thr Val Ile Val Gly Asp Asn
 130 135 140
 Leu Arg Thr Asp Ile Leu Ala Gly Phe Gln Ala Gly Leu Glu Thr Ile
 145 150 155 160
 Leu Val Leu Ser Gly Val Ser Gln Leu Asp Asp Ile Asp Thr Met Pro
 165 170 175
 Phe Arg Pro Ser Trp Ile Tyr Pro Ser Val Asp Glu Ile Asp Val Ile
 180 185 190

<210> 10297

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 10297

Asn Ala Cys Ala Pro Ser Pro Phe Cys Gly Ile Phe Ile Ser Lys Gln
 1 5 10 15
 His His Asn Ala Thr Gly Leu Thr Glu Lys Val Met Cys Ser Ile Phe
 20 25 30
 Gly Val Leu Asp Ile Lys Thr Asp Ala Gly Glu Leu Arg Lys Lys Ala
 35 40 45
 Leu Glu Leu Ser Arg Leu Met Arg His Arg Gly Pro Asp Trp Ser Gly
 50 55 60
 Val Tyr Ala Ser Asp Lys Ala Ile Leu Ala His Glu Arg Leu Ser Ile
 65 70 75 80
 Val Asp Val His Ala Gly Ala Gln Pro Leu Tyr Asn Glu Lys Lys Thr
 85 90 95
 Pro Ala Leu Ala Val Lys Arg Glu Ile Tyr Gln His Gln Ala Leu Pro
 100 105 110
 Pro Glu
 115

<210> 10298

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 10298

Arg Leu Ile Met Lys Tyr Gln Phe Phe Trp Ser Ser Thr Pro Lys Ile
 1 5 10 15
 Tyr Glu Leu Leu Leu Asn Leu Thr Ile Gly Ile Ala Ile Ile Asn Tyr
 20 25 30
 Leu Val Pro Thr Glu Gln Gly Lys Ile Gly Phe Leu Ile Asn Leu Cys
 35 40 45
 Met Leu Leu Ser Phe Leu Thr Thr Leu Gly Ile Gly Pro Val Phe Ser
 50 55 60
 Asn Phe Val Ser Arg Ser Asn Asn Tyr Asn Leu Ile Ser Gly Lys Phe
 65 70 75 80
 Lys Asp Ser Ile Ser Leu Arg Phe Cys Gly Tyr Ile Val Phe Leu Val
 85 90 95
 Ile Ser Phe Leu Leu Ile Tyr Ile Ile Lys Pro Asn Leu Leu Ile Leu

100 105 110
 Ala Ile Pro Phe Leu Leu Gly Lys Phe Phe Phe Ser Leu Asp Ile Tyr
 115 120 125
 Tyr Asn Phe Val Glu Gly Gln Gly Arg Phe Lys Asp Tyr Ala Ile Ser
 130 135 140
 Lys Phe Phe Ser Leu Thr Leu Ile Asn Gly Phe Arg Leu Tyr Cys Val
 145 150 155 160
 Val Gln Lys Leu Asp Val Phe Trp Val Ala Val Ser Tyr Phe Leu Thr
 165 170 175
 Asp Phe Leu Thr Phe Phe Met Tyr Phe Ile Phe Tyr Asp Lys Leu Lys
 180 185 190
 Leu Leu Gly Phe Arg Phe Asn Tyr Lys Lys Ser Leu Val Leu Leu Lys
 195 200 205
 Ile Asn Tyr Lys Leu Ala Leu Ser Ser Leu Arg Arg Cys Arg Ser Arg
 210 215 220
 Asp Ile Thr Ser
 225

<210> 10299

<211> 198

<212> PRT

<213> Enterobacter cloacae

<400> 10299

Pro Ile Ala Arg Leu Val Gln Asp Tyr Pro Ile Lys Ser Cys Ser Val
 1 5 10 15
 Ile Ala His Ile Arg Gln Ala Asn Arg Gly Glu Val Ala Leu Glu Asn
 20 25 30
 Thr His Pro Phe Thr Arg Glu Leu Trp Gly Arg Asn Trp Thr Tyr Ala
 35 40 45
 His Asn Gly Gln Leu Ser Gly Tyr Lys Ser Leu Glu Thr Gly Asn Phe
 50 55 60
 Arg Pro Val Gly Glu Thr Asp Ser Glu Lys Ala Phe Cys Trp Leu Leu
 65 70 75 80
 His Lys Leu Thr Glu Arg Tyr Pro Arg Thr Pro Gly Asn Met Thr Ala
 85 90 95
 Val Phe Lys Tyr Ile Ala Ser Leu Ala Ser Glu Leu Arg Glu Lys Gly
 100 105 110
 Val Phe Asn Met Leu Leu Ser Asp Gly Arg Tyr Val Met Ala Phe Cys
 115 120 125
 Ser Thr Asn Leu Phe Trp Ile Thr Arg Arg Ala Pro Phe Gly Val Ala
 130 135 140
 Thr Leu Leu Asp Gln Asp Val Glu Ile Asp Phe Gln Lys Glu Thr Thr
 145 150 155 160
 Pro Asn Asp Val Val Thr Val Ile Ala Thr Gln Pro Leu Thr Gly Asn
 165 170 175
 Glu Thr Trp Gln Lys Ile Met Pro Gly Glu Trp Ala Leu Phe Cys Leu
 180 185 190
 Gly Asp Arg Val Ile
 195

<210> 10300

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 10300

Thr Leu Ile Phe Gln Pro Pro Cys Val Lys Ile Leu Phe Leu Ala Ser
 1 5 10 15
 Leu Leu Phe Met Ala Pro Ala Ala Phe Ala Ala Thr Thr Trp Pro Leu
 20 25 30

```

Thr Ile Glu Asn Cys Gly Val Lys Gln Thr Phe Thr Gln Ala Pro Gln
    35              40              45
Arg Val Val Thr Val Gly Gln His Glu Thr Glu Leu Leu Ala Leu
    50              55              60
Gly Leu Glu Lys Thr Ile Ala Ala Thr Ser Val Trp Phe Gly Thr Leu
    65              70              75              80
Pro Pro Thr Leu Glu Asp Ala Gly Lys Asn Leu Pro Arg Leu Ala Asp
    85              90              95
Tyr Ser Pro Ser Phe Glu Ala Val Val Gly Gln Lys Pro Glu Leu Val
    100             105             110
Leu Ala Gln Tyr His Trp His Ile Gly Pro Gln Gly Glu Val Gly Thr
    115             120             125
Arg Glu Gln Phe Ala Ser Leu Gly Ile Asn Thr Trp Ile Ser Pro Ala
    130             135             140
Asp Cys Thr Asp Lys Thr Val Thr Glu Thr Ser Asn Ala Asp Gly Ala
    145             150             155             160
Arg Ser Ala Pro Phe Ser Leu Ala Glu Ile Thr Arg Glu Val Thr Asp
    165             170             175
Leu Ala Thr Ile Phe Asp Val Ser Ala Arg Gly Glu Gln Leu Asn Arg
    180             185             190
Ala Leu Ala Glu Arg Ile Lys Lys Ala Gln Ala Arg Ala Ser Ala Lys
    195             200             205
Gln Leu Ser Val Val Phe Trp Phe Ser Ser Ser Arg Leu Asn Gly Asp
    210             215             220
Pro Trp Val Ala Gly Asn Tyr Gly Ala Pro Gly Trp Ile Ser Arg Thr
    225             230             235             240
Leu Gly Leu Lys Asn Ile Ile Asp Ser His Asp Glu Trp Pro Ala Val
    245             250             255
Thr Trp Glu His Ile Ala Arg Ser Gln Pro Asp Val Ile Val Ile Ala
    260             265             270
Gly Met Ser Arg Arg Leu Tyr Pro Ala Asp Glu Val Glu Val Lys Lys
    275             280             285
Ala Phe Leu Arg Ser Asp Pro Val Thr Lys Asn Met Pro Ala Val Arg
    290             295             300
Asn Asn His Ile Ile Val Val Pro Ala Met Ser Leu Asn Pro Ser Leu
    305             310             315             320
Arg Asn Val Asp Ala Val Glu Leu Ile
    325

```

<210> 10301

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10301

```

Gly Tyr Thr Arg Ala Thr Met Ala His Thr Lys Arg Ser Asp Leu Ala
1              5              10              15
Arg Ala Ser Gly Pro His Lys Val Arg Arg Ser Pro Asp Trp Ser Leu
    20              25              30
Gln Leu Asp Ser Met Lys Ser Glu Ser Leu Val Ile Val Asp Gln Asn
    35              40              45
Ala Thr Val Asn Thr Phe Pro Gly Leu Val His Thr Ala Arg His Thr
    50              55              60
Met Gly Val Gly Cys Lys Arg Ser Arg
    65              70

```

<210> 10302

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 10302

Pro Lys Arg Arg Pro Ser Gly Ala Met Glu Leu Asp Asn Ala Asn Asn
 1 5 10 15
 Val Gly Gly Tyr Pro Gly Tyr Ser Ile Thr Asn Leu Ala Pro Phe Leu
 20 25 30
 Gln Ala Arg Tyr Asp Ile Asp Ala Ile Thr Leu Ser Gly Gly Val Arg
 35 40 45
 Tyr Gln Tyr Thr Glu Asn Lys Val Asp Asp Phe Val Gly Tyr Ala Gln
 50 55 60
 Gln Gln Ala Ile Ala Thr Gly Lys Ala Thr Ser Ala Asp Ala Val Pro
 65 70 75 80
 Gly Gly Lys Thr Asp Tyr Asn Asn Phe Leu Phe Asn Ala Gly Ile Leu
 85 90 95
 Gly Arg Leu Thr Glu Gln Gln Gln Leu Trp Phe Asn Phe Ser Gln Gly
 100 105 110
 Phe Glu Ile Pro Asp Leu Ala Lys Tyr Tyr Gly Ser Gly Thr Tyr Gln
 115 120 125
 Leu Val Asp Gly His Tyr Arg Leu Gln Asn Ser Val Asn Val Asn Asp
 130 135 140
 Ser Thr Leu Asp Gly Ile Lys Val Asn Ala Tyr Glu Leu Gly Trp Arg
 145 150 155 160
 Phe Thr Gly Asp Asn Leu Arg Thr Gln Val Ala Ala Tyr Tyr Ser Leu
 165 170 175
 Ser Asp Lys Thr Ile Thr Ile Asn Lys Ser Asp Met Thr Ile Asn Leu
 180 185 190
 Glu Asp Asp Lys Arg Arg Ile Tyr Gly Val Glu Gly Gln Val Asp Tyr
 195 200 205
 Phe Phe Thr Asp Ser Asp Trp Ser Thr Gly Ala Asn Phe Asn Ala Ile
 210 215 220
 Lys Ser Glu Thr Arg Glu Asn Gly Lys Trp Glu Lys Leu Thr Val Asp
 225 230 235 240
 Ser Ala Ser Pro Ser Lys Ala Ser Ala Trp Val Asn Trp Ala Pro Gly
 245 250 255
 Asp Trp Thr Leu Arg Val Gln Ser Thr Gln Thr Phe Asp Val Ser Asp
 260 265 270
 Ala Asp Gly Lys Lys Ile Asp Gly Tyr Asn Thr Val Asp Phe Leu Gly
 275 280 285
 Ser Tyr Ala Leu Pro Val Gly Lys Val Ser Phe Ser Val Glu Asn Leu
 290 295 300
 Leu Asp Lys Asp Tyr Thr Thr Ala Trp Gly Gln Arg Ala Pro Gly Leu
 305 310 315 320
 Tyr Ser Pro Thr Tyr Gly Ala Pro Gly Leu Ser Thr Tyr Val Phe Ser
 325 330 335
 Thr Arg Arg Pro Arg Ile Arg Arg Lys
 340 345

<210> 10303

<211> 205

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (205)

<400> 10303

Arg Asn Asn Lys Ile Gln Arg Met Lys Lys Arg Ile Pro Thr Leu Leu
 1 5 10 15
 Asp Thr Met Ile Gly Thr Ala Leu Tyr Ser Gln Gln Gly Leu Ala Ala
 20 25 30
 Asp Leu Ala Ser Gln Cys Met Leu Gly Val Pro Ser Tyr Asn Arg Pro

```

      35      40      45
Leu Val Lys Gly Asp Thr Asn Asp Leu Pro Val Thr Ile Asn Ala Asp
  50      55      60
Ser Ala Lys Gly Asn Tyr Pro Asp Asn Ala Thr Phe Thr Gly Asn Val
  65      70      75      80
Asp Ile Asn Gln Gly Asn Ser Arg Leu Leu Ala Asp Glu Val Gln Leu
      85      90      95
His Gln Lys Gln Pro Glu Gly Ala Gln Ala Pro Val Arg Thr Val Asp
      100      105      110
Ala Leu Gly Asn Val His Tyr Asp Asp Asn Gln Val Ile Leu Lys Gly
      115      120      125
Pro Lys Ala Trp Ser Asn Leu Asn Thr Lys Asp Thr Asn Val Trp Glu
      130      135      140
Gly Asp Tyr Gln Met Val Gly Arg Gln Gly Arg Gly Thr Ala Asp Leu
      145      150      155      160
Met Lys Gln Arg Gly Glu Asn Arg Tyr Thr Ile Leu Glu Asn Gly Thr
      165      170      175
Phe Thr Ser Cys Leu Pro Arg Ser Asn Thr Trp Ser Val Val Gly Ser
      180      185      190
Glu Val Ile His Asp Arg Glu Glu Gln Val Ala Glu Xaa
      195      200      205

```

<210> 10304

<211> 122

<212> PRT

<213> Enterobacter cloacae

<400> 10304

```

Val Glu Thr Thr Lys Leu Trp Ile Ser Leu Gly Thr Ile Val Ser Pro
  1      5      10      15
Ile Thr Gly Thr Phe Phe Thr Lys Ile Ile Thr Gln Tyr Asn His Lys
      20      25      30
Tyr Leu Leu Trp Tyr Asn Gly Glu Tyr Leu Ile Lys Pro Gly Asp Asn
      35      40      45
Ile Lys Val Asn Asn Asn Gly Ile Val Ile Ser Glu Lys Leu Arg Lys
      50      55      60
Ile Asn Ile Ile Gln Ile Asp Lys Tyr Ser Pro Thr Leu Trp Arg Val
      65      70      75      80
Met His Asn Met Ser Ser Cys Pro Gly Asp Lys Glu Pro Glu Asn Ser
      85      90      95
Phe Cys Thr Ser Ser Val Arg Cys Ile Phe Lys Thr Cys Pro Tyr Gly
      100      105      110
Lys Lys Arg Arg Asn Ala Cys Lys Arg
      115      120

```

<210> 10305

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 10305

```

Asp Ser Gly His Tyr Asn Lys Ser Leu Gly Trp Leu Ser Leu Phe Ala
  1      5      10      15
Gly Thr Val Leu Leu Ser Gly Cys Asp Ser Ala Leu Leu Asp Pro Lys
      20      25      30
Gly Gln Ile Gly Leu Glu Gln Arg Ser Leu Ile Leu Thr Ala Phe Gly
      35      40      45
Leu Met Leu Ile Val Val Ile Pro Ala Ile Leu Met Ala Val Gly Phe
      50      55      60
Ala Trp Lys Tyr Arg Ala Ser Asn Lys Asp Ala Lys Tyr Ser Pro Asn
      65      70      75      80

```


Trp Ser His Ser Asn Lys Val Glu Ala Val Val Trp Thr Val Pro Ile
 85 90 95
 Leu Ile Ile Leu Phe Leu Ala Val Leu Thr Trp Lys Thr Thr His Ala
 100 105 110
 Leu Glu Pro Ser Lys Pro Leu Val His Asp Glu Lys Pro Ile Thr Ile
 115 120 125
 Glu Val Val Ser Met Asp Trp Lys Trp Phe Phe Ile Tyr Pro Glu Gln
 130 135 140
 Gly Ile Ala Thr Val Asn Glu Ile Ala Phe Pro Ala Asn Thr Pro Val
 145 150 155 160
 Gln Phe Lys Val Thr Ser Asn Ser Val Met Asn Ser Phe Phe Ile Pro
 165 170 175
 Arg Leu Gly Ser Gln Ile Tyr Ala Met Ala Gly Met Gln Thr Asn Leu
 180 185 190
 His Leu Ile Ala Asn Glu Ala Gly Thr Tyr Asp Gly Ile Ser Ala Ser
 195 200 205
 Tyr Ser Gly Pro Gly Phe Ser Gly Met Lys Phe Lys Ala Ile Ala Thr
 210 215 220
 Pro Asp Arg Ala Thr Phe Asp Gln Trp Val Ala Lys Ala Lys Gln Ser
 225 230 235 240
 Thr Asn Thr Met Ser Asp Met Ala Ala Phe Glu Lys Val Ala Ala Pro
 245 250 255
 Ser Glu Tyr Asn Lys Gly Gly Val Leu Leu
 260 265

<210> 10306

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 10306

Pro Ala Thr Gly Leu Phe Pro Gln Trp Ser Arg Cys Pro Gly Thr Gly
 1 5 10 15
 Gly Val Asp Leu Arg Gln Ser Gly Ala Ile Leu Met Lys Arg Val Ala
 20 25 30
 Phe Val Phe Thr Ser Ala Pro His Gly Ser Ala Ser Gly Arg Glu Gly
 35 40 45
 Leu Asp Ala Leu Leu Ala Thr Ser Ala Leu Thr Glu Asp Ile Gly Val
 50 55 60
 Phe Phe Leu Gly Asp Gly Val Phe Gln Leu Leu Ala Gly Gln Gln Pro
 65 70 75 80
 Gln Ala Ile Leu Ala Arg Asp Tyr Ile Ala Thr Phe Lys Val Leu Pro
 85 90 95
 Leu Tyr Asp Ile Glu Thr Phe Tyr Val Cys Ala Asp Ser Leu Ala Ala
 100 105 110
 Arg Gly Leu Asn Glu Lys Thr Pro Phe Val Leu Asp Val Thr Ile Leu
 115 120 125
 Thr Ser Ala Ala Leu Arg Glu Gln Leu Ser His Tyr Asp Thr Val Leu
 130 135 140
 Thr Phe
 145

<210> 10307

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 10307

Ile Ile Pro Pro Gly Ser Lys Ser Gly Asp Phe Ser Trp Asp Lys Thr
 1 5 10 15
 Ser Asn Ala Phe Cys Val Asn Gly Asp Gly Pro Arg Arg Thr Val Pro

Ser Gln Ile Gln Leu Ala Lys Ala Ile Gly Ile Glu Gln Pro Ser Leu
 35 40 45
 Val Arg Thr Leu Asp Gln Leu Glu Glu Lys Gly Leu Ile Ser Arg Gln
 50 55 60
 Thr Cys Ala Ser Asp Arg Arg Ala Lys Arg Ile Lys Leu Thr Glu Lys
 65 70 75 80
 Ala Ala Pro Ile Ile Thr Glu Met Glu Thr Val Ile Ser Lys Thr Arg
 85 90 95
 Gly Glu Ile Leu Ala Gly Ile Ser Pro Ala Glu Leu Glu Met Leu Ile
 100 105 110
 Gly Leu Ile Ala Arg Leu Glu Gln Asn Ile His Asp Leu Gln Ser Arg
 115 120 125
 Asp
 130

<210> 10310

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 10310

Arg Leu Glu Gly Ser Lys Thr His Arg Glu Trp Arg Val Pro Val Val
 1 5 10 15
 Arg Gln Leu Arg Leu Arg Leu Gln Leu Leu Ser Arg Ala Thr Glu
 20 25 30
 Ala Gly Ala Gly Pro Lys Asp Asn Leu Phe Asp Val Ser Phe Tyr Ile
 35 40 45
 Ala Gly Arg Lys Ala Lys Phe Glu Arg Asn Asp Val Ser Val Met His
 50 55 60
 Gln Lys Ile Arg Ser Phe Phe Arg Arg Leu Ser Lys Glu Cys Gly Phe
 65 70 75 80
 Ala Val Ser Pro His Arg Phe Arg His Thr Leu Ala Thr Glu Leu Met
 85 90 95
 Lys Ala Pro Glu Arg Asn Leu Gln Leu Val Lys Asp Leu Leu Gly His
 100 105 110
 Arg Ser Val Ser Thr Thr Met Glu Tyr Val Glu Leu Arg Met Asp Ile
 115 120 125
 Val Gly Lys Thr Leu Glu Glu Glu Leu Ser Leu His Thr Asp Leu Cys
 130 135 140
 Val Glu Arg Glu Leu Gln Leu Leu Thr Gln Asn
 145 150 155

<210> 10311

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 10311

Ser Trp Asn Pro Asn Glu Leu Leu Thr Gly Lys Thr Glu Cys Asn Lys
 1 5 10 15
 Cys Glu Glu Ala Ser Pro Gly Asn Val Thr Leu Lys Thr Ile Glu Gly
 20 25 30
 Val Val Arg Asn Val Pro Phe Tyr Gly Glu Ile Ala Gly Ser Arg Val
 35 40 45
 Lys Lys Gly Pro Trp Trp Leu Ile Ile Leu Lys Arg Trp Leu Gln Lys
 50 55 60
 Ser Leu Thr Arg Gly Phe Ser His Phe Asn Pro Asp Gln Tyr Asn Gly
 65 70 75 80
 Ala Cys Leu Leu Gly Leu Arg Gly Ile Val Ile Lys Ser His Gly Ala
 85 90 95
 Ala Asn Gln Arg Ala Phe Thr Val Ala Ile Glu Gln Ala Val Gln Ala

100 105 110
 Val Gln Arg Gln Val Pro Gln Arg Ile Ala Ala Arg Leu Gly Ser Val
 115 120 125
 Leu Ala Lys Ser Asp
 130

<210> 10312

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 10312

Ala Tyr Met Tyr Thr Lys Ile Leu Gly Thr Gly Ser Tyr Leu Pro Lys
 1 5 10 15
 Gln Val Arg Thr Asn Ala Asp Leu Glu Lys Met Val Asp Thr Ser Asp
 20 25 30
 Glu Trp Ile Val Thr Arg Thr Gly Ile Arg Glu Arg Arg Ile Ala Ala
 35 40 45
 Pro Asp Glu Thr Val Ser Thr Met Gly Tyr Glu Ala Ala Gln Arg Ala
 50 55 60
 Leu Glu Met Ala Gly Ile Asp Lys Glu Gln Ile Gly Leu Ile Val Val
 65 70 75 80
 Ala Thr Thr Ser Ala Thr His Ala Phe Pro Ser Ala Ala Cys Gln Val
 85 90 95
 Gln Asn Met Leu Gly Ile Lys Gly Cys Pro Ala Phe Asp Val Ala Ala
 100 105 110
 Ala Cys Ala Gly Phe Thr Tyr Ala Leu Ser Ile Ala Asp Gln Tyr Val
 115 120 125
 Lys Ser Gly Ala Val Lys Tyr Ala Leu Val Ile Gly Ala Asp Val Leu
 130 135 140
 Ala Arg Thr Cys Asp Pro Thr Asp Arg Gly Thr Ile Ile Phe Gly
 145 150 155 160
 Asp Val Leu Pro Ser Pro Trp Lys Ile Arg Ile Cys Val
 165 170

<210> 10313

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 10313

Gln Val Thr Val Thr Asn Asp Asn Gly Lys Leu Asp Ile Arg Leu Thr
 1 5 10 15
 Gly Pro Trp Arg Glu Val Ile Met Trp Glu Val Pro Leu Leu Ala Val
 20 25 30
 Ile Ser Glu Leu Ala His Arg Tyr Arg Ser Pro Glu Thr Gly Val Thr
 35 40 45
 Gln Ala Val Ala Ala Leu Glu Asn Lys Leu Val Glu Phe Ser Arg Leu
 50 55 60
 Thr Glu Gly Leu Asp Met Ser Arg Phe Arg Leu Met Asp Phe Gly Thr
 65 70 75 80
 Arg Arg Arg Phe Ser Arg Glu Val Gln Glu Ala Ile Val Arg Arg Leu
 85 90 95
 Gln Gln Glu Pro Trp Phe Val Gly Thr Ser Asn Tyr Asp Leu Ala Arg
 100 105 110
 Arg Leu Asp Leu Thr Pro Met Gly Thr Gln Ala His Glu Trp Phe Gln
 115 120 125
 Ala His Gln Gln Ile Ser Pro Asp Leu Ala Asn Ser Gln Arg Ala Ala
 130 135 140
 Leu Ala Ala Trp Leu Glu Tyr Pro Asp Arg Leu Gly Ile Ala Leu
 145 150 155 160

```
<210> 10314
<211> 174
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10315
<211> 217
<212> PRT
<213> Enterobacter cloacae
```

<400> 10315																
Cys	Met	Asn	Leu	Ile	Ser	Ile	Ser	Ala	Phe	Gln	Asp	Asn	Tyr	Ile	Trp	
1				5					10					15		
Val	Leu	Val	Asp	Asp	Arg	Arg	Cys	Ile	Ile	Val	Asp	Pro	Gly	Glu		
			20				25					30				
Ser	Ala	Pro	Ile	Leu	His	Ala	Ile	Lys	Glu	Asn	Gly	Trp	Gln	Pro	Glu	
		35					40					45				
Ala	Ile	Leu	Leu	Thr	His	His	His	His	Asp	His	Val	Gly	Gly	Val	Pro	
	50					55					60					
Asp	Leu	Leu	Ala	Arg	Tyr	Pro	His	Leu	Pro	Val	Tyr	Gly	Pro	Ala	Glu	
65					70					75					80	
Thr	Gln	Asp	Lys	Gly	Thr	Thr	Gln	Val	Val	Glu	Glu	Gly	Glu	Ser	Ile	

				85				90					95				
Leu	Ile	Leu	Gly	Trp	Glu	Phe	Ser	Val	Phe	Ala	Thr	Pro	Gly	His	Thr		
			100					105					110				
Ser	Gly	His	Leu	Cys	Leu	Tyr	Ser	Lys	Pro	Tyr	Leu	Phe	Cys	Gly	Asp		
		115					120					125					
Thr	Leu	Phe	Ser	Gly	Gly	Cys	Gly	Arg	Leu	Phe	Glu	Gly	Thr	Pro	Glu		
		130				135					140						
Gln	Met	Tyr	Gln	Ser	Leu	Gln	Lys	Ile	Asn	Ala	Leu	Pro	Ala	Asp	Thr		
145					150				155					160			
Val	Ile	Cys	Cys	Ala	His	Glu	Tyr	Thr	Leu	Gly	Asn	Met	Lys	Phe	Ala		
			165						170					175			
Ala	Ser	Val	Leu	Pro	Glu	Asp	Arg	Ala	Ile	Gln	Asp	Tyr	Tyr	Leu	Lys		
		180						185					190				
Val	Lys	Glu	Leu	Arg	Ala	Lys	Asn	Leu	Lys	Thr	Leu	Pro	Val	Met	Ser		
		195					200					205					
Ser	Leu	Gln	Arg	Ala	Arg	Ser	His										
	210					215											

<210> 10316

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 10316

Asp	Ser	Cys	Ile	Thr	Ser	Tyr	Ser	Val	Ala	Gly	Val	Leu	Met	Lys	Pro		
1				5					10					15			
Ala	Arg	Ile	Pro	Gln	Thr	Val	Ala	Pro	Pro	Glu	Arg	Trp	Ala	Glu	Leu		
			20					25					30				
Pro	Trp	Gly	Glu	Tyr	Tyr	Arg	Glu	Ala	Leu	Glu	Leu	Gln	Leu	Lys	Pro		
		35					40					45					
Trp	Leu	Ala	Lys	Met	Asn	Gly	Phe	His	Leu	Leu	Lys	Ile	Gly	Asn	Leu		
		50				55					60						
Ser	Ala	Glu	Ile	Asn	Thr	Glu	Ser	Cys	Ala	Ile	Ser	His	Gln	Val	Ser		
65				70					75					80			
Val	Ser	Leu	Asn	Gly	Ser	Pro	Val	Gln	Val	Lys	Ala	Asp	Pro	Met	His		
			85						90					95			
Leu	Pro	Phe	Ala	Glu	Lys	Ser	Ile	Asp	Ala	Cys	Leu	Leu	Ala	His	Thr		
		100						105					110				
Leu	Pro	Trp	Cys	Ser	Asp	Pro	His	Arg	Leu	Leu	Arg	Glu	Ala	Asp	Arg		
		115					120					125					
Pro	Leu	Ile	Val	Val	Val	Asp	Gln	Pro	Val	Asp	Trp						
	130					135					140						

<210> 10317

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 10317

Ser	Gln	Ala	Phe	Val	Arg	Asn	Tyr	Gly	Tyr	Glu	Leu	Ala	His	Arg	Val		
1				5					10					15			
Ile	Cys	Ala	Leu	Arg	Ala	Ala	Leu	Val	Glu	Lys	Ser	Met	Asn	Asp	Glu		
		20						25					30				
Met	Lys	Asn	Lys	Ser	Gly	Lys	Val	Lys	Val	Met	Tyr	Val	Arg	Ser	Asp		
		35					40					45					
Asp	Asp	Ser	Asp	Lys	Arg	Thr	Gln	Asn	Pro	Arg	Thr	Gly	Lys	Gly	Gly		
		50				55					60						
Gly	Arg	Pro	Ala	Ser	Ser	Arg	Ala	Asp	Gly	Gly	Arg	Arg	Pro	Ala	Arg		
65				70					75					80			
Asp	Asp	Arg	Asn	Asn	Arg	Gly	Asp	Asp	Arg	Lys	Arg	Asp	Asp	Arg	Lys		
			85						90					95			

Arg Asp Asp Arg Lys Arg Asp Asp Phe Val Arg Asp Gly Gly Ser Pro
 100 105 110
 Trp Arg Thr Val Ser Arg Ala Pro Gly Glu Glu Thr Thr Glu Lys Ala
 115 120 125
 Asp His Gly Gly Ile Ser Gly Lys Ser Phe Ile Asp Pro Glu Val Leu
 130 135 140
 Arg Arg Gln Arg Ala Glu Glu Thr Arg Val Tyr Gly Glu Asn Ala Cys
 145 150 155 160
 Gln Ala Leu Phe Gln Ser Arg Pro Glu Cys Ile Val Arg Ala Trp Phe
 165 170 175
 Ile Gln Ser Val Thr Pro Arg Phe Lys Glu Ala Leu Arg Trp Met Ala
 180 185 190
 Ala Asn Arg Lys Ala Tyr His Val Val Asp Asp Ala Glu Leu Thr Lys
 195 200 205
 Ala Ser Gly Thr Glu His His Gly Gly Val Cys Phe Leu Ile Lys Lys
 210 215 220
 Arg Asn Gly Thr Thr Val Gln Gln Trp Val Ser Gln Ala Asp Ala Asp
 225 230 235 240
 Asp Cys Val Leu Ala Leu Glu Asp Val Gly Asn Pro His Asn Leu Gly
 245 250 255
 Ala Met Met Arg Ser Cys Ala His Phe Gly Val Lys Gly Val Leu Leu
 260 265 270
 Gln Asp Ala Ala Leu Leu Glu Ser Gly Ala Ala
 275 280

<210> 10318

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 10318

Met Lys Thr Phe Thr Ala Lys Pro Glu Thr Val Gln Arg Asp Trp Tyr
 1 5 10 15
 Val Val Asp Ala Thr Gly Lys Thr Leu Gly Arg Leu Ala Thr Glu Leu
 20 25 30
 Ala Arg Arg Leu Arg Gly Lys His Lys Ala Glu Tyr Thr Pro His Val
 35 40 45
 Asp Thr Gly Asp Tyr Ile Ile Val Leu Asn Ala Asp Lys Val Ala Val
 50 55 60
 Thr Gly Asn Lys Arg Thr Asp Lys Met Tyr Tyr His His Thr Gly His
 65 70 75 80
 Ile Gly Gly Ile Lys Glu Ala Thr Phe Glu Glu Met Ile Ala Arg Arg
 85 90 95
 Pro Glu Arg Val Ile Glu Ile Ala Val Lys Gly Met Leu Pro Lys Gly
 100 105 110
 Pro Leu Gly Arg Ala Met Phe Arg Lys Leu Lys Val Tyr Ala Gly Asn
 115 120 125
 Glu His Asn His Ala Ala Gln Gln Pro Gln Val Leu Asp Ile
 130 135 140

<210> 10319

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 10319

Ala Met Ala Glu Asn Gln Tyr Tyr Gly Thr Gly Arg Arg Lys Ser Ser
 1 5 10 15
 Ala Ala Arg Val Phe Ile Lys Pro Gly Ser Gly Lys Ile Val Ile Asn
 20 25 30
 Gln Arg Ser Leu Glu Gln Tyr Phe Gly Arg Glu Thr Ala Arg Met Val

```

      35              40              45
Val Arg Gln Pro Leu Glu Leu Val Asp Met Val Glu Lys Leu Asp Leu
  50              55              60
Tyr Ile Thr Val Lys Gly Gly Ile Ser Gly Gln Ala Gly Ala Ile
  65              70              75
Arg His Gly Ile Thr Arg Ala Leu Met Glu Tyr Asp Glu Ser Leu Arg
      85              90              95
Ser Glu Leu Arg Lys Ala Gly Phe Val Thr Arg Asp Ala Arg Gln Val
      100              105              110
Glu Arg Lys Lys Val Gly Leu Arg Lys Ala Arg Arg Arg Pro Gln Phe
      115              120              125
Ser Lys Arg
      130

```

<210> 10320

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 10320

```

Thr Ser Val Arg Gln Leu Arg Pro Asp Ala Ala Leu Ala Ser Ile Lys
  1              5              10              15
Ser Thr Val Leu Val Ile Ala Val His Gln Ser Ile Gly Ala Gly Ile
      20              25              30
Ala Leu Ala Ile Pro Leu Thr Ala Ala Gly Gln Val Leu Thr Ile Ile
      35              40              45
Val Arg Thr Ile Thr Val Ala Phe Gln His Ala Ala Asp Lys Ala Ala
      50              55              60
Glu Asn Gly Asn Leu Thr Ala Leu Ser Trp Ile His Val Ser Ser Leu
      65              70              75
Phe Leu Gln Ala Met Arg Ile Ala Ile Pro Ala Val Ile Val Ala Ile
      85              90              95
Ser Val Gly Thr Ser Glu Val Gln Gly Met Leu Asn Ala Ile Pro Glu
      100              105              110
Val Val Thr Ser Gly Leu Asn Ile Ala Gly Gly Met Ile Val Val Val
      115              120              125
Gly Tyr Ala Met Val Ile Asn Met Met Arg Ala Gly Tyr Leu Met Pro
      130              135              140
Phe Phe Tyr Leu Gly Phe Val Thr Ala Ala Phe Thr Asn Phe Asn Leu
      145              150              155
Val Ala Leu Gly Val Ile Gly Ala Val Met Ala Ile Leu Tyr Ile Gln
      165              170              175
Leu Ser Pro Lys Tyr Asn Arg Val Ala Gly Ala Pro Ala Gln Ala Ala
      180              185              190
Gly Asn Asn Asp Leu Asp Asn Glu Leu Asp
      195              200

```

<210> 10321

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 10321

```

Gln Val Ser Glu Met Val Asp Met Thr Lys Thr Thr Thr Glu Lys Lys
  1              5              10              15
Leu Thr Pro Gly Asp Ile Arg Gly Val Phe Ile Arg Ser Asn Leu Phe
      20              25              30
Gln Gly Ser Trp Asn Phe Glu Arg Met Gln Ala Leu Gly Phe Cys Phe
      35              40              45
Ser Met Val Pro Ala Ile Lys Arg Leu Tyr Pro Glu Asn Asn Glu Ala
      50              55              60

```


Arg	Arg	Gln	Ala	Ile	Lys	Arg	His	Leu	Glu	Phe	Phe	Asn	Thr	His	Pro
65					70					75					80
Tyr	Val	Ala	Ala	Pro	Val	Leu	Gly	Val	Thr	Leu	Ala	Met	Glu	Glu	His
				85					90					95	
Arg	Ala	Asn	Gly	Ala	Glu	Ile	Asp	Asp	Gly	Ala	Ile	Asn	Gly	Ile	Lys
			100					105					110		
Val	Gly	Leu	Met	Gly	Pro	Leu	Ala	Gly	Val	Gly	Asp	Pro	Ile	Phe	Trp
		115					120					125			
Gly	Thr	Val	Arg	Pro	Val	Phe	Ala	Ala	Leu	Gly	Ala	Gly	Ile	Ala	Met
	130					135					140				
Ser	Gly	Ser	Leu	Leu	Gly	Pro	Leu	Leu	Phe	Phe	Ile	Leu			
145					150					155					

<210> 10322

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 10322

Ser	Val	Gly	Leu	Arg	Val	Ser	Ser	Gly	Cys	Met	Arg	Met	Asn	Ala	Pro
1				5					10					15	
Asp	Ile	Lys	Ala	Leu	Phe	Glu	Gln	Val	Arg	Val	Gly	Thr	Arg	Val	Gln
			20					25					30		
Ile	Ile	Asn	Glu	Pro	Val	Lys	Phe	Ser	Val	Glu	Pro	Asp	Gly	Lys	Arg
		35					40					45			
Tyr	Ile	Glu	Val	His	Arg	Pro	Leu	Ala	Gln	Ala	Glu	Gly	Glu	Asn	Pro
	50					55					60				
Gln	Thr	Val	Pro	Phe	Thr	His	Ser	Ala	Ala	Phe	Thr	Ala	Phe	Ala	Ala
	65				70					75				80	
Glu	Ser	Gly	Ser	Asp	Lys	Thr	Leu	Ile	Asp	Lys	Ala	Leu	Ala	Arg	Arg
			85						90					95	
Ala	Gly	Ile	Pro	Val	Ala	Val	Ser	Thr	Gly	Asn	Gly	Ser	Ser	Ala	Ser
			100					105					110		
Asn	Ser	Val	Leu	Ser	Val	Gln	Asn	Ser	Arg	Val	Ser	Ala	Ala	Val	Ala
		115					120					125			
Glu	Asp	Glu	Gly	Glu	Lys	Ala	Leu	Gln							
	130					135									

<210> 10323

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 10323

Leu	Leu	Ala	Leu	Thr	Ala	Ile	Arg	Tyr	Thr	Pro	Leu	Cys	Tyr	Phe	Ile
1				5					10					15	
Asn	Thr	Glu	Gly	Leu	Ser	Cys	Met	Tyr	Gln	Asp	Leu	Ile	Arg	Asn	Glu
			20					25					30		
Leu	Asn	Glu	Ala	Ala	Glu	Thr	Leu	Ala	Asn	Phe	Leu	Lys	Asp	Asp	Ala
		35					40					45			
Asn	Ile	His	Ala	Ile	Gln	Arg	Ala	Ala	Val	Leu	Leu	Ala	Asp	Ser	Phe
	50					55					60				
Lys	Ala	Gly	Gly	Lys	Val	Leu	Ser	Cys	Gly	Asn	Gly	Gly	Ser	His	Cys
	65				70					75				80	
Asp	Ala	Met	His	Phe	Ala	Glu	Glu	Leu	Thr	Gly	Arg	Tyr	Arg	Glu	Asn
			85						90					95	
Arg	Pro	Gly	Tyr	Pro	Ala	Ile	Ala	Ile	Ser	Asp	Val	Ser	His	Ile	Ser
			100					105					110		
Cys	Val	Gly	Asn	Asp	Phe	Gly	Tyr	Asp	His	Ile	Phe	Ser	Arg	Tyr	Val
		115					120					125			
Glu	Ala	Val	Gly	Arg	Glu	Gly	Asp	Val	Leu	Leu	Gly	Ile	Ser	Thr	Ser

```

      130                      135                      140
Gly Asn Ser Ala Asn Val Ile Lys Ala Ile Ala Ala Ala Arg Glu Lys
145                      150                      155
Gly Met Lys Val Ile Thr Leu Thr Gly Lys Asp Gly Gly Lys Met Asp
                      165                      170                      175
Gly Thr Ala Asp Ile Glu Ile Arg Val Pro His Phe Gly Tyr Ala Asp
                      180                      185                      190
Arg Val Gln Glu Ile His Ile Lys Val Ile His Ile Leu Ile Gln Leu
                      195                      200                      205
Ile Glu Lys Glu Met Val Lys
      210                      215

```

<210> 10324

<211> 290

<212> PRT

<213> Enterobacter cloacae

<400> 10324

```

Arg Arg Phe Ser Ala Ile Pro Leu Val Asp Tyr Phe Tyr Gly Leu Val
1 5 10 15
Val Val Ile Trp Gly Thr Thr Trp Ile Ala Ile Phe Leu Gln Gln Gly
20 25 30
Pro Val Ala Ala Pro Val Ser Ile Phe Trp Arg Phe Ala Val Ala Ser
35 40 45
Ala Thr Met Met Ile Val Leu Val Ala Leu Arg Arg Leu Arg Arg Leu
50 55 60
Ala Leu Arg Asp His Leu Tyr Cys Met Leu Gln Gly Cys Cys Val Phe
65 70 75 80
Cys Phe Asn Phe Trp Cys Phe Tyr Thr Ala Ala Ala His Ile Asn Thr
85 90 95
Gly Leu Glu Ser Val Ile Phe Ser Met Ala Val Leu Tyr Asn Ala Ile
100 105 110
Asn Ser Phe Ile Phe Phe Gly Gln Arg Pro Pro Ala Arg Phe Trp Thr
115 120 125
Ala Ala Ala Leu Gly Leu Ile Gly Ile Ile Thr Leu Phe Trp Asn Asp
130 135 140
Leu Leu Ala Ser Gly Trp Ser Ala Ser Leu Leu Thr Gly Ile Gly Leu
145 150 155 160
Ser Ala Leu Gly Thr Tyr Gly Phe Ser Leu Gly Asn Met Ile Ser Met
165 170 175
Arg His Gln Arg Asn Gly Met Glu Thr Met Thr Thr Asn Ala Trp Ala
180 185 190
Met Leu Tyr Gly Thr Val Val Met Gly Leu Ile Ala Leu Phe Arg Gly
195 200 205
Asp Asn Phe Met Pro Glu Trp Thr Val Ser Tyr Met Gly Ala Met Leu
210 215 220
Tyr Leu Ala Leu Phe Gly Ser Val Ile Ala Phe Gly Ala Tyr Phe Thr
225 230 235 240
Leu Val Gly Arg Ile Gly Pro Gly Lys Ala Ala Tyr Ser Thr Leu Leu
245 250 255
Phe Pro Ala Gly Gly Ala Val Asp Phe Asn Gly Val Thr Arg Leu Pro
260 265 270
Phe Gly Ile Leu Thr Gly Phe Ser Gly Cys Phe Leu Ile Gly Gly
275 280 285
His Phe
290

```

<210> 10325

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 10325

Lys Lys Asn Thr Met Phe Gln Gln Glu Val Thr Ile Thr Ala Pro Asn
 1 5 10 15
 Gly Leu His Thr Arg Pro Ala Ala Gln Phe Val Lys Glu Ala Lys Gly
 20 25 30
 Phe Thr Ser Glu Ile Thr Val Thr Ser Asn Gly Lys Ser Ala Ser Ala
 35 40 45
 Lys Ser Leu Phe Lys Leu Gln Thr Leu Gly Leu Thr Gln Gly Thr Val
 50 55 60
 Val Thr Ile Ser Ala Glu Gly Glu Asp Glu Gln Lys Ala Val Glu His
 65 70 75 80
 Leu Val Lys Leu Met Ala Glu Leu Glu 90
 85

<210> 10326

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 10326

Gly Arg Val Met Ile Ser Gly Ile Leu Ala Ser Pro Gly Ile Ala Phe
 1 5 10 15
 Gly Lys Ala Leu Leu Lys Glu Asp Glu Ile Val Ile Asp Arg Lys
 20 25 30
 Lys Ile Ser Ala Asp Lys Val Asp Gln Glu Val Glu Arg Phe Leu Ser
 35 40 45
 Gly Arg Ala Lys Ala Ser Ala Gln Leu Glu Ala Ile Lys Thr Lys Ala
 50 55 60
 Gly Glu Thr Phe Gly Glu Glu Lys Glu Ala Ile Phe Glu Gly His Ile
 65 70 75 80
 Met Leu Leu Glu His Glu Glu Leu Glu Gln Glu Ile Ile Ala Leu Ile
 85 90 95
 Lys Asp Lys Gly Met Thr Ala Asp Ala Ala His Glu Val Ile Glu
 100 105 110
 Gly Gln Ala Ser Ala Leu Glu Glu Leu Asp Asp Glu Tyr Leu Lys Glu
 115 120 125
 Arg Ala Ala Asp Val Arg Asp Ile Gly Lys Arg Leu Leu Arg Asn Ile
 130 135 140
 Leu Gly Leu Ala Ile Ile Asp Leu Ser Ala Ile Gln Asp Glu Val Ile
 145 150 155 160
 Leu Val Ala Ala Asp Leu Thr Pro Ser Glu Thr Ala Gln Leu Asn Leu
 165 170 175
 Asn Lys Val Leu Gly Phe Ile Thr Asp Ala Gly Gly Arg Thr Ser His
 180 185 190
 Thr Ser Ile Met Ala Arg Ser Leu Glu Leu Pro Ala Ile Val Gly Tyr
 195 200 205
 Gly Ser Val Thr Ser Gln Val Lys Asn Asn His Tyr Leu Ile Leu Asp
 210 215 220
 Ala Val Lys Asn Val Val Tyr Val Asn Pro Thr Asn Asp Val Ile Asp
 225 230 235 240
 His Cys Ala Pro Val Gln Glu Gln Val Gly Thr Glu Lys Asn Glu Leu
 245 250 255
 Ala Lys Thr Glu Lys Phe Ala Asn His Pro Ala Trp Asn Gly Phe Arg
 260 265 270
 Leu Lys Leu Cys Ala Asn Ile Arg Tyr Gly 280
 275

<210> 10327

<211> 119

<212> PRT

<400> 10327

<210> 10328

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10328

Leu 1	Ser	Ala	Asp 5	Ala	Ala	Ser	Pro	Val 10	Val	Lys	Ile	Pro	Glu 15	Ile	Asn
Gln	Ile	Thr	Ile 20	Ala	Lys	Phe	Phe	Ser 25	Gly	Gln	Gly	Leu	Ser 30	Leu	Met
Gly	Ala	Ala 35	Leu	Ile	Tyr	Glu	Met 40	Val	Leu	Lys	Ala	His 45	Asp	Ala	Met
Thr	Asp 50	Leu	Ile	Trp	Asn	Glu 55	Tyr	Glu	Val	Lys	Thr 60	Met	Asn	Gly	

<210> 10329

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10329

Asp 1	Glu	His	Met	Arg 5	Ala	Ser	Ala	Thr	Arg 10	Ser	Glu	Asp	Leu 15	Gly	His
Pro	Glu	Asn	Lys 20	Ser	Glu	Leu	Ala	Trp 25	Asn	Glu	Asn	Lys	Lys 30	Trp	Lys
Lys	Asn	Gln 35	Glu	Ser	Leu	Leu	Leu 40	Asn	Gly	Val	Glu	Ile 45	Pro	Ile	Val
Ser	Leu 50	Asp	Tyr	Glu	Ile	Glu 55	Ile	Asn	Gln	Glu	Ile 60	Gly	Asn	Tyr	Asn
Ala 65	Phe	Lys	Asp	Thr	Cys 70	Tyr	Leu	Glu	Asn 75	Tyr	Arg				

<210> 10330

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 10330

Gly Gly Thr Leu Thr Gly Leu Leu Phe Glu Gln Ile Glu Glu Arg Lys
1 5 10 15
Met Ser Tyr Leu Glu Tyr Ile Asn Glu Val Lys Val Ser Gly Ile Val

```
<210> 10331
<211> 66
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10332
<211> 123
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10333
<211> 86
<212> PRT
<213> Enterobacter cloacae
```

<400> 10333

Arg Phe Leu Ser Met Val Ala Glu Thr Gly Trp Ile Asn Ala Ala Arg
 1 5 10 15
 Cys Leu Thr Trp Arg Asn Gln Phe Trp Cys Glu Val Asn Val Gly Ile
 20 25 30
 Glu Thr Ile Ile Gly Leu Ala Ala Leu Val Ile Ser Ala Ile Ala Gly
 35 40 45
 Ala Phe Gly Leu Gly His Ile Arg Gly Thr Ser Lys Ala Gln Ala Lys
 50 55 60
 Ala Asp Gln Gln Arg Thr Glu Asp Asn Ala Ala Thr Val Ala Ala
 65 70 75 80
 Ala Glu Arg Arg Val
 85

<210> 10334

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 10334

Val Asn Ser Lys Gly Lys Ala Phe Asp Val Lys Leu Glu Ala Tyr Ala
 1 5 10 15
 Leu Ser Glu Asn Asp Gly Lys Asn Gly Ile Arg Gly Thr Leu Ile Ser
 20 25 30
 Arg Asn Gly His Ala Ile Ala Gly Ala Ala Phe Ala Gly Gly Leu Ser
 35 40 45
 Ser Leu Ala Gly Ser Leu Ser Pro Ser Lys Val Ser Ser Phe Tyr Ile
 50 55 60
 Asp Pro Tyr Ser Gln Ala Gln Tyr Gln Ser Pro Asn Phe Gly Ala Leu
 65 70 75 80
 Gly Ala Leu Ala Gly Val Gly Ala Ala Gln Gly Gly Leu Asn Arg Leu
 85 90 95
 Val Asp Tyr Tyr Thr Ala Ile Ala Glu Gln Gln Trp Pro Ile Val Glu
 100 105 110
 Ile Ser Pro Gly Arg Ala Ile Thr Phe Val Val Gln Thr Gly Thr Thr
 115 120 125
 Ile Pro Thr Asn Leu Thr Ser Arg
 130 135

<210> 10335

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 10335

Met Asp Ser Leu Glu Lys Lys Glu Ser Pro Glu Ser Ala Gly Pro Glu
 1 5 10 15
 Ile Thr Lys Lys Met Val Arg Glu Arg Thr Thr Lys Lys Ile Thr Phe
 20 25 30
 Glu Ile Asp Ile Glu Lys Ile Leu Lys Tyr Leu Phe Phe Ala Phe
 35 40 45
 Ala Val Leu Val Ile Ile Tyr Gly Tyr Lys Gly Phe Met Asn Val Tyr
 50 55 60
 Asp Tyr Phe Asn Lys Gln Ser Gln Pro Ser Tyr Lys Ile Ala Val Leu
 65 70 75 80
 Asp Met Pro Glu Leu Arg Lys Glu Phe Phe Lys His His Gly Gly Arg
 85 90 95
 Thr Ala Asp Asn Asp Arg Ser Gln Phe Glu Glu Tyr Phe Arg Thr Leu
 100 105 110
 Met Lys Ile Tyr Arg Asp Arg Gly Tyr Leu Ile Ile Asp Ala Thr Leu
 115 120 125

Ala Val Thr Val Pro Asp Ser Val Glu Ile Val Thr Tyr Met Glu Leu
 130 135 140
 Glu Asp Ser Ser Glu Ala Val Gln Ser Ser Ser Tyr Asn Ala Lys Lys
 145 150 155 160

<210> 10336

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10336

Thr Phe Thr Asn Phe Phe Arg Lys Asp Phe Leu Phe Trp Gln Ile Leu
 1 5 10 15
 His Gly His Tyr Ser Ala Leu Cys Asn Leu Ile Gln Ser Val Thr Lys
 20 25 30
 Pro Glu Glu Glu Ile Val Ile Phe Ser Thr Gly Asn Leu Phe Asp Tyr
 35 40 45
 Gly Pro Glu Pro Ile Glu Leu Met Lys Ala Ile Asn Ser Gly Phe Phe
 50 55 60
 Asp Gly Arg Phe Val Arg His Phe Ser Ala Ala Gly Ala Gly Glu Glu
 65 70 75 80
 Met Leu Lys Lys Leu Leu Pro Leu Asn Lys Asp Arg Arg Thr Phe Tyr
 85 90 95
 Pro Ser Thr Tyr Leu Asn Glu Arg Trp Cys Val Met Gly Gly Lys Trp
 100 105 110
 His Lys Ala Val Asn Arg Tyr Tyr Leu Glu Glu Glu Val Lys Lys Leu
 115 120 125
 Leu Asn Thr Gln Leu Gly Thr Met Met Gln Ile Leu Leu Lys Gly Asp
 130 135 140
 Ile Lys Ile Gly Val Cys Pro Ser Asp Tyr Ala Pro Ile Arg Thr Ser
 145 150 155 160
 Phe Thr Asp Thr Tyr Asn Ala Leu Gln Ala Phe Asn Tyr Ala Asn Val
 165 170 175
 Asn Ile Phe Gln Ser Gln Phe Leu Phe Gly Met Asp His Ala Val Ile
 180 185 190
 Pro Met Met Ile Asn Asp Val Asn Leu Met Val Leu Gly Arg Asn Pro
 195 200 205
 Val Asn Ser Ile Arg Lys Ala His Gly Arg Thr Gln Asn Asn Leu Pro
 210 215 220
 Val Leu Ile Gly Asn Cys Leu His Ile Asn Thr Gly Ser Leu Tyr Met
 225 230 235 240
 Ser Lys Leu Glu Asp Gln Val Ile Val Ala Pro Gly Ile Pro Gln Thr
 245 250 255
 Asp Ser Pro Ala Leu Thr Leu Val Glu Ile Ile Met Lys Asn Asn Pro
 260 265 270
 Val Leu Leu Cys His Gln Leu Ile Gln Thr Thr Asn Lys Phe Tyr Ser
 275 280 285
 Leu Lys Thr Tyr Pro Leu Glu Leu Asp Ser Ile Glu Asn Asn Ile Glu
 290 295 300
 Val Thr Arg
 305

<210> 10337

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 10337

Thr Arg Val Arg Asn Pro Leu Met Asp Ile Arg Lys Ile Lys Lys Leu

```

1           5           10           15
Ile Glu Leu Val Glu Glu Ser Gly Ile Ser Glu Leu Glu Ile Ser Glu
20
Gly Glu Glu Ser Val Arg Ile Ser Arg Ala Ala Pro Ala Ala Ser Phe
35
Pro Val Met Gln Gln Ala Tyr Ala Ala Pro Val Gln Gln Pro Ala Leu
50
Ser Ala Ala Val Ala Pro Ala Ala Ala Glu Ala Ala Pro Ala Ala Ala
65
Thr Glu Asn His Gly His Ile Val Ser Ser Pro Trp Leu Val Leu Ser
85
Thr Ala Pro Arg Ser Arg Thr Arg Lys Ala Ser Thr Lys Cys Val Lys
100
Lys Ser Thr
115

```

<210> 10338

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10338

```

Gly Gly Gly Lys Gly Glu Gly Glu Val Gly Gly Thr Arg Glu Glu Arg
1           5           10           15
Arg Lys Arg Gly Leu Gly Lys Gly Arg Ala Met Glu Gly Gly Glu Gly
20
Gly Arg Glu Gly Lys Val Glu Gly Gly Ala Glu Val Gly Gly Gly Val
35
Gly Gly Gly Glu Gly Gly Gly Gly Gly Gly Glu Arg
50

```

<210> 10339

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10339

```

Lys Arg Arg Lys Arg Lys Lys Lys Lys Asp Leu Ser Ala Lys Gly Gln
1           5           10           15
Ala Glu Ala Ser Lys Arg Thr Ala Lys Ala Thr Thr Asn Pro Leu Thr
20
Lys Glu Asn Ser Gly Asn Lys Glu Thr Phe Thr Lys Ala Pro Glu Arg
35
Glu Glu Ala Leu Gly Gln Lys Thr Val Glu Ile Gln Leu Gln Gln Gly
50
Leu Glu Glu Lys Glu Lys Ala Ser Ala Phe Trp Pro Thr Lys Glu
65
70
80

```

<210> 10340

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10340

```

Thr Ala Leu Ala Ser Ser Pro Asp Leu Arg Ile Met Arg Gly Leu Val
1           5           10           15
Val Ile Asp Gly Gly Phe Asn Leu Asn Gln Ser Ser Ser Leu Cys Tyr
20
Ser Thr Met Leu Pro Ile Gly Glu Leu Arg Lys Asn Gly Tyr Thr Leu
35
Pro Ser Ile Val Met Gly Leu Arg Ser Asn His Phe Arg Leu
40
45

```


50

55

60

<210> 10341

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10341

```

Ile Leu Thr Arg Val Thr Glu Ser Val Arg Thr Gly Ser Gly Leu Val
1      5      10      15
Leu Ser Thr Leu Ile Lys Ala Phe Phe Ile Ala Leu Phe Pro Leu Val
      20      25      30
Leu Lys Lys Leu Pro Thr Arg Pro Asp Gly Gly Val Gly Gln Lys Ile
      35      40      45
Met Pro Val Pro Tyr Ser Ser Ser Gln His Ala Tyr Ala Gly Thr Leu
      50      55      60
Ser Gly Gln His Glu His
65      70

```

<210> 10342

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10342

```

Pro Thr Pro Pro Ser Gly Arg Val Gly Asn Phe Phe Arg Thr Arg Gly
1      5      10      15
Asn Arg Ala Met Lys Lys Ala Phe Ile Asn Val Asp Lys Thr Asn Pro
      20      25      30
Leu Pro Val Leu Thr Asp Ser Val Thr Arg Val Ser Ile Gln Cys Thr
      35      40      45
Ala Lys Asp Glu Asn Gly Ala Gly Ile Glu Val Asn Ile Leu Asp Leu
      50      55      60
Ile Gln Asp His Asp Thr Asp Glu Val Lys Val Gln Phe Gly Ser Ser
65      70      75      80
Pro Val Gln Ala Leu Ala Met Leu Arg Arg Val Met Thr Ala Leu Glu
      85      90      95
Lys Gln Ala Asn Ala Glu Leu Gln Gln Asn Ser Cys Ser Arg Met Gln
      100      105      110

```

<210> 10343

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 10343

```

Asn Gly Glu Lys Pro Lys Arg Arg Thr Leu Val Tyr Ala Thr Gly Asn
1      5      10      15
Arg Asn Arg Phe Arg Leu Gln Arg Asn Arg Val His Lys Gln Asn Pro
      20      25      30
Ala Gly Lys Ala Pro Ser Met Ser Ser Val Leu Asn Lys Lys Thr Val
      35      40      45
Thr Val Ile Ala Asp Thr Ala Ile Pro Ile Phe Glu Arg Ile Ala Glu
      50      55      60
Glu Ala Lys Leu Lys Glu Gly Glu Ser Val Ser Thr Asp Thr Tyr Thr
65      70      75      80
Leu Val Leu Thr Asn Asp Glu Met Asn Asp Ile Ile Asn Ala His Ala
      85      90      95
Asp Leu Lys Glu Tyr Leu Arg Lys His Ala Glu Lys Met Asn Lys Gly

```

Gln Ala 100 105 110
115

<210> 10344
<211> 113
<212> PRT
<213> Enterobacter cloacae

<400> 10344
Thr Tyr Gly Glu Asp Met Val Ile Thr Tyr Ser Leu Ser Glu Thr Phe
1 5 10 15
Asn Met Phe Leu Arg Glu Ile Ile Ala Ser Gly Leu Ala Val Phe Cys
20 25 30
Ala Trp Cys Val Leu Cys Leu Phe Ser Asp Gln Glu Arg Gly Lys Glu
35 40 45
Val Pro Val Ser Met Lys Lys Ile Thr Ser Lys Ser Ala Phe Ser Tyr
50 55 60
Phe Ile Ser Ser Gln Ile Ala Ala Phe Ile Ile Ser Leu Leu Gly Ser
65 70 75 80
Ile Leu Ser Thr Lys Trp Asp Asn Ile Val Trp Asn Asp Glu Ile Arg
85 90 95
Gln Ser Asp Leu His Val Phe Thr Thr Ser Gln Ile Arg Ser Asn
100 105 110
Ala

<210> 10345
<211> 64
<212> PRT
<213> Enterobacter cloacae

<400> 10345
Ser Pro Asn Val Cys Leu Ser Ile Arg Leu Val Lys Tyr Gly Ser Ser
1 5 10 15
Leu Ile Lys Ile Cys Ser Leu Ile Val Phe Phe Ala Gly Ser Pro Arg
20 25 30
Leu Phe Phe Val Ser Ser Pro Glu Ser Ser Lys Tyr Phe Ser Ile Phe
35 40 45
Leu Glu Asn Arg Glu Gln Asp Gly Val Leu Leu Phe Glu Gln Ser
50 55 60

<210> 10346
<211> 164
<212> PRT
<213> Enterobacter cloacae

<220>
<221> UNSURE
<222> (10)

<400> 10346
Met His Ser Leu Met Thr Val Ala Ile Xaa Ile Gln Asn Gln Gln Gly
1 5 10 15
Phe Phe Asp Leu Phe Lys Ser Gln Glu Arg Lys Ser Lys Glu Val Ile
20 25 30
Ser Ile Leu Phe Glu Tyr Val Arg Glu Asn Ser Val Trp Val Glu His
35 40 45
Tyr Glu Ser Gln Ile Ser Ile Thr Gln Asp Asp Arg Tyr Ser Leu Val
50 55 60
His Phe Asn Gln Tyr Gln Glu Pro Asn Trp Ser Phe Ile Ser Lys Glu

```
<210> 10347
<211> 98
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10348
<211> 97
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10349
<211> 63
<212> PRT
<213> Enterobacter cloacae
```

<220>
 <221>UNSURE
 <222>(27)

<400> 10349

```
Ser Thr Asn Asn Trp Glu Lys Glu Tyr Leu Pro Pro Pro Lys Gly Leu
1          5          10          15
Glu Phe Met Glu Ile Pro Thr Asp Pro Phe Xaa Cys Val Leu Leu Gly
          20          25          30
Trp Gly Gly Gly Ile Lys Gly Gly Pro Phe Pro Gly Gly Glu Ser Arg
          35          40          45
Thr Asn Tyr Pro Ala Gln Gly Gly Pro Thr Phe Pro Trp Val Val
          50          55          60
```

<210> 10350

<211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 10350

```
Ile Gln Lys Val Thr Phe Ile Met Pro Ser Leu Leu Gly Ile Ser Asn
1          5          10          15
Lys Lys Ser Leu Pro Asn Leu Leu Asp Ile Ser Asn Leu His Leu Ile
          20          25          30
Asp Asn His Met His Ser Asp Tyr Ser Val Asp Val Pro Phe Gly Gly
          35          40          45
Pro Ala Leu Arg Glu Gln Lys Lys Arg Pro Ile Gly Arg Phe Ala Leu
          50          55          60
```

65

<210> 10351

<211> 71
 <212> PRT
 <213> Enterobacter cloacae

<400> 10351

```
Lys Ser Gly Tyr Pro Pro Phe Pro Gln Ala Gly Asp Asp Tyr Met Gln
1          5          10          15
Asp Asn Glu Leu Ala Lys Val Arg Asp Phe Trp Leu Thr Val Lys Leu
          20          25          30
Met Ala Glu Asn Ser Leu Lys Glu Ile Ser Leu Leu Asn Thr His Gln
          35          40          45
Glu Ile Leu Gln Lys Ser His Arg Glu Ala Met Ser Asn Leu Ser Ser
          50          55          60
Leu Leu Lys Glu Gln Val
65          70
```

<210> 10352

<211> 144
 <212> PRT
 <213> Enterobacter cloacae

<400> 10352

```
Lys Gly Ala Gly Pro Gly Met Ser Arg Ile Ile Ala Arg Thr Gly Met
1          5          10          15
Ile Arg Ser Ser Ser Ile Leu Thr His Arg Phe Ile Arg Ala Ala Arg
          20          25          30
Ser Arg Arg Ala Ser Val Arg Pro Arg Ala Gln Gly Gln Trp His Arg
          35          40          45
Arg Arg Ser Ile Arg Pro Val Leu Met Ser Cys Lys Lys Ser Ser Val
```

```

      50                      55                      60
Ala Gln Ala Asp Trp Thr Gly Ala Arg Gly Leu Met Glu Ala Gly Lys
65                      70                      75                      80
Arg Gln Leu Glu Asn Ala Leu Arg Ala Arg Asp Val Tyr Lys Asn Glu
      85                      90
Tyr Thr Leu Ser Lys Arg Ser Ile Asn Asp Leu Leu Ser Val Glu Gln
      100                      105                      110
Asp Val Trp Ser Ala Thr Ser Ala Lys Ile Met Ala Glu Tyr Asp Gly
      115                      120                      125
Trp Ser Ala Ala Ile Asn Tyr Ala Ser Ala Val Asp Asn Leu Met Pro
      130                      135                      140

```

<210> 10353

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10353

```

Leu Thr Glu Gly Ser Arg Ser Arg Ala Lys Arg Ile Leu Ser Phe Ile
1      5      10      15
Val Ile Ala Ala Thr Gly Asp Ile Pro Ala Trp Pro Leu Phe Ala Leu
      20      25      30
Ala Ala Val Thr Thr Asn Glu Ile Lys Val Arg Glu Ala Asp Asn Leu
      35      40      45
Ser Asn Leu Leu Leu His Phe Ile Phe Ile Ile Ser Pro Asp Ser Arg
      50      55      60

```

65

<210> 10354

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10354

```

Ile Ser Phe Ala Val Arg His Leu Arg Asn Asp Ile Gly Phe Thr Cys
1      5      10      15
Ser Gly Pro Val Phe Thr Asn Arg Trp Met Ile His Phe Ser Phe Ile
      20      25      30
Tyr Leu Ala Arg Ser Arg Tyr Phe Met Phe Val Ile Arg Phe Gln Asn
      35      40      45
Val Thr Phe Val Ile Val Lys Ser Ile Leu Leu Ile Asn Ile Ala Leu
      50      55      60
Ser Tyr Lys Phe Ile Asn Lys Ser Trp Ile Val His Tyr Tyr Cys Leu
65      70      75      80
Asn Gly Lys Ser Val Thr Ala Ile Phe Asp Thr Asn Gly Cys Val Arg
      85      90      95
Asn Asp

```

<210> 10355

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 10355

```

Ala Phe Asn Asn Arg Ser Glu Tyr Ile Pro Lys Arg Ser Val Leu Ile
1      5      10      15
Val Pro Asp Ala Pro Ile Ser Ile Glu Asp Gly Ser Asn Ala Phe Pro
      20      25      30
Val Gln Thr Val Ile Met Asn Asp Pro Thr Leu Ile Asp Lys Phe Val

```

35 40 45
 Gly Glu Gly Asn Ile Asn Glu Glu Asn Ala Phe Asp Tyr His Lys Ser
 50 55 60
 Asn Val Leu Glu Pro Asn Tyr Lys His Glu Ile Ser Arg Thr Ser Gln
 65 70 75 80
 Ile Asp Lys Ala Glu Met Asn His Pro Ser Val Arg Glu Asn Trp Ala
 85 90 95
 Arg Ala Gly Glu Pro Tyr Ile Val Pro Gln Met Ser Asp Ser Glu Arg
 100 105 110
 Asn Leu Lys Ile Lys Arg Phe Gln Lys Pro Thr Ser Gly Ala Asn His
 115 120 125
 Gly His
 130

<210> 10356

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 10356

Lys Leu Asn Asp Ser Arg Asn Leu Gln Val Glu Leu Ile Met Asp Ile
 1 5 10 15
 Lys Lys Ala Trp Glu Asn Lys Thr Val Arg Leu Ser Val Ile Gly Ala
 20 25 30
 Leu Leu Val Val Ile Val Tyr Ile Ile Ser Gln Ser Ile Phe Ser Thr
 35 40 45
 Pro Val Lys Lys Glu Lys Lys Thr Gln Lys Lys Asp Met Gln Thr Asn
 50 55 60
 Leu Leu Leu Asp Asp Ser Gln Met Asn Lys Leu Ser Asn Glu Glu Ser
 65 70 75 80
 Gln Lys Val Tyr Lys Glu Met Val Lys Gln Asn Arg Leu Asp Gln Asn
 85 90 95
 Ala Ala Lys Glu Asp Arg Glu Lys Ala Glu Lys Ala Gln Gln Glu Thr
 100 105 110
 Lys Ala Gln Val Ala Ser Leu Thr Ser Gln Leu Gln Gln Leu Ser Gln
 115 120 125
 Gln Ile Asn Asp Met Gln Thr Asn Arg Asn Gly Asn Arg Asn Leu Asp
 130 135 140
 Ala Gly Ser Ser Arg Lys Thr Ile Asn Glu Gln Ala Pro Ala Ala Pro
 145 150 155 160
 Tyr Gln Leu Asn Ala Asn Ala Pro Ile Asn Gly Val Asn Pro Asn Tyr
 165 170 175
 Ala Ser Ile Thr Pro Thr Arg Asn Ser Pro Met Arg Thr Ile Thr Gln
 180 185 190
 Ser Ser Ile Lys Thr Asn Gly Thr Asp Gly Val Ile Gln Val Met Pro
 195 200 205
 Val Ser Glu Asn Arg Ile Lys Glu Gly Arg Glu Val Ile Ala Gly Leu
 210 215 220
 His Gln Gly Pro Glu Asp Thr His
 225 230

<210> 10357

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10357

Cys Pro Lys Ala Leu Lys Gly Ile Glu Asn Pro Phe Arg Arg Ala Phe
 1 5 10 15
 Glu Leu Gln Arg Arg Ser Ser Leu Lys Cys Pro Ser Cys Pro Thr Ile
 20 25 30

<210> 10358

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10358

[illegible]

<210> 10359

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10359

Arg 1	Gly	Gly	Val 5	Lys	His	Thr	Pro	Phe 10	Ala	Thr	Ile	Leu	Lys 15	Pro	Leu
Ser	Asp	Arg	Cys 20	Ser	Ser	Leu	Pro	Gly 25	Ser	Trp	Arg	Ser 30	Asp	Leu	Val
Val	Lys	Thr 35	Tyr	His	Pro	Pro	Ala 40	Gln	Pro	Val	Gly	Ile 45	Phe	Gly	Cys
Asn 50	Arg	Phe	Lys	Leu	Gln	Phe 55	Leu	Pro	Ser	Val	Met 60	Gly	Met	Ile	Arg
Gly 65	Gln	Asn	Leu	Asp	Asn 70	Tyr	Ser	Asn	Asn	Pro 75					

<210> 10360

$\langle 211 \rangle$ 90

<212> PRT

<213> Enterobacter cloacae

$\langle 220 \rangle$

<221>UNSURE

<222> (50)

 $\langle 220 \rangle$

<221>UNSURE

$\langle 222 \rangle$ (66)

 $\langle 220 \rangle$

<221>UNSURE

 $\langle 222 \rangle (72)$ $\langle 220 \rangle$

<221>UNSURE

<222>(73)

<220>

<221>UNSURE

<222>(88)

<220>

<221>UNSURE

<222>(89)

<400> 10360

Arg	Asn	Gln	Leu	Pro	Ala	Thr	Ala	Thr	Leu	Pro	Phe	Cys	Ser	Ser	Ile
1				5					10					15	
Pro	Gly	Gly	Glu	Val	Leu	Phe	Ser	Ser	Ala	Gln	Gly	Ala	Ala	Leu	Arg
			20					25					30		
Pro	Ala	Val	Asn	Ser	Ala	Asp	Phe	Ser	Glu	His	Ser	Arg	Ala	Arg	Asp
		35					40					45			
Val	Xaa	Leu	Trp	Thr	Val	Glu	Gly	Ser	Ala	Gly	Thr	Ile	Asp	Thr	Gly
	50					55					60				
Val	Xaa	Asn	Glu	Tyr	Gly	Thr	Xaa	Xaa	Ile	Ile	Ala	Leu	Phe	Trp	Val
65					70					75					80
Arg	Pro	Ile	Phe	Leu	Gly	Lys	Xaa	Xaa							
				85					90						

<210> 10361

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10361

Gly	Gly	Gly	Val	Tyr	His	Lys	Leu	Trp	Gln	Lys	Met	Gln	Trp	Leu	Phe
1				5					10					15	
Phe	Ile	Leu	Val	Ala	Pro	Arg	Leu	Leu	Val	Asp	Ala	Asp	Tyr	Glu	Gly
			20					25					30		
Thr	Leu	Ser	Asn	Met	Leu	Ala	Ala	Ile	Lys	Cys	Leu	Ser	Pro	Val	Arg
		35					40					45			
His	Ser	Leu	Ile	Val	Val	Thr	Lys	Asn	Arg	Ala	Leu	Phe	Phe	Val	Trp
	50					55					60				
Val	Asn	Asn	Cys	Phe	Ser	Asn	Phe	Leu	Asn	Ile	Asp	Ala	Arg	Lys	
65					70					75					80

<210> 10362

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 10362

Ala	Ser	Ala	Ala	Thr	Ser	Gly	Ser	Leu	Leu	Pro	Val	Pro	Val	Pro	Gly
1				5					10					15	
Tyr	Ser	Arg	Gln	Trp	Gln	Ile	Gln	Val	Cys	Ser	Phe	Ile	Phe	Leu	Ile
			20					25					30		
Ile	Lys	Gln	Arg	Met	Ser	Ala	Thr	Met	Lys	Val	Lys	Ala	Ala	Glu	Tyr
		35					40					45			
Thr	Thr	Ser	Tyr	Gly	Lys	Lys	Cys	Ser	Gly	Cys	Phe	Leu	Tyr	Leu	Ser
	50					55					60				
Arg	Arg	Asp	Tyr	Trp	Ser	Thr	Arg	Ile	Met	Lys	Val	Leu	Cys	Pro	Ile
65					70					75					80

Cys

<210> 10363
 <211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 10363
 Gln Ser Glu Ile Glu Gly Met His Arg Thr Lys Phe Glu Arg Leu Lys
 1 5 10 15
 Asp Asp Leu Ile Gly Glu Ala Val Leu Ser Ile Leu Lys Glu Asn Gly
 20 25 30
 Pro Ile Thr Phe Val Ser Leu Ala Asn Arg Leu Arg Ala Met Ala Asn
 35 40 45
 Val Glu Ser Asn Asp Glu Arg Lys Asn Ala Leu Ile Ala Ala Glu Asp
 50 55 60
 Glu Val Arg Gln Arg Val Thr Gly Val Ser His Asp Arg Gly Arg Val
 65 70 75 80
 Met Gly Asn Tyr Asp Met Gly Arg Met Arg Ser Leu Phe Thr His Asn
 85 90 95
 Thr Leu Leu Thr Pro Asp Lys Lys His
 100 105

<210> 10364
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 10364
 Arg Asp Lys Phe Phe Lys Phe Phe Phe Ala Ile Asp Ala Phe Arg Asn
 1 5 10 15
 Ala Phe Pro Ser Arg His Val Ala Val Tyr Leu Tyr Arg Phe Asn Asn
 20 25 30
 Ala Ile Val Ile Val Val Ser Asn Lys Val Leu Asn Tyr Ile Ala Val
 35 40 45
 Lys Leu Gln Ser Ile Asn Ile Asn Leu Ser Asp Gly
 50 55 60

<210> 10365
 <211> 82
 <212> PRT
 <213> Enterobacter cloacae

<400> 10365
 Ile Thr Gly Ser Ser Thr Tyr Asn Glu Met Asn Leu Ala His Leu Lys
 1 5 10 15
 Lys Gln Ile His Tyr Asn Arg Val Met Tyr Ile Ala Val Leu His Leu
 20 25 30
 Arg His Leu Pro His Arg Leu Ile Phe Ile Tyr Asp His Lys Asp
 35 40 45
 Ile Phe Tyr Val Pro Gln Lys Val Ile Thr His Glu Tyr Ile Asn His
 50 55 60
 Asp His Cys Val Tyr Ser Phe Ile Leu Trp Gly Ser Phe Cys Ser Val
 65 70 75 80
 Gln

<210> 10366
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 10366

Thr Ser Leu Phe Ile Phe Val Arg Leu Ser Phe Asp Ser Cys Gln Thr
 1 5 10 15
 Leu Ile Trp Lys Thr Lys Lys Ser Phe Leu Leu Ile Arg Phe Thr Glu
 20 25 30
 Ile Leu Leu Arg Tyr Phe Gly Tyr Tyr Leu Asn Asn Tyr Gln Lys Arg
 35 40 45
 Gly Ala Ala Met Arg Lys Ser Tyr Thr Phe Gly Ile Pro Phe Gly Leu
 50 55 60
 Gln Arg Glu Ser Gly Leu Phe Leu Asp Ile Thr Glu Val Ser Arg Gly
 65 70 75 80
 Ile Asp Cys Asn Cys Ile Cys Pro Ala Cys Lys Thr Asp Leu Leu Ala
 85 90 95
 Lys Gln Gly Glu Val Lys Leu Trp His Phe Ser His Ser Thr Ala Val
 100 105 110
 Ala Gly Asp Cys Asp Gly Leu Met Glu Ala Ile Arg Gly Lys Ile Ile
 115 120 125
 Glu Val Ile Asn Glu His Gln Val Leu Gly Phe Pro Asn Leu Leu Ala
 130 135 140
 Gly Asp Asp Gly Gly Pro Val Ser Leu Asn Glu Val Ser Gly Ser Gly
 145 150 155 160
 Ser Met Phe Gly Gly Thr Ala Asp Leu Phe Val Ser Val Lys Pro Leu
 165 170 175
 Pro Pro Val Ala Ile Thr Asn Asp
 180 185

<210> 10367

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10367

Cys Pro Thr His Gln Ile Ala Ala Thr Tyr Glu Thr Val Pro Arg Gln
 1 5 10 15
 Ile Met Ala Gln Ser Gln Ile Tyr Gln Cys Ser Arg Lys Met Lys Leu
 20 25 30
 Gly Tyr Phe Pro Arg Phe Ser Ile Tyr Trp Gly Thr Ser Gln Asp Tyr
 35 40 45
 Glu Ser Cys Phe Thr Val Cys Val Val Arg Ser Leu
 50 55 60

<210> 10368

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 10368

Asn Tyr Phe Ser Asp Leu Arg Gly Leu Tyr Tyr Leu Pro Ser Ala Lys
 1 5 10 15
 Val Ser His Asn Phe Thr Ile Ser Thr Tyr Gln Asn Phe Leu Gly Leu
 20 25 30
 Leu Phe Cys Tyr Val Lys Cys His Ile Leu Lys Asn Met Ala Tyr Met
 35 40 45
 Leu Ile His Asn Ala Ile Lys Asp Val Leu Ala Leu Ser Leu Ser Ser
 50 55 60
 Asn Glu Ser Cys Thr Pro Gln Gln Pro Gln Met Met Thr Asp Gln Arg
 65 70 75 80
 Leu

<210> 10369

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 10369

Lys Gln Leu Ala Pro Gly Asn Arg Ala Ala Arg Lys Gly Glu Arg Ala
 1 5 10 15
 Gly Ala Ala Pro Gln Lys Glu Asp Arg Arg Arg His Gly Arg Gly Val
 20 25 30
 Gln Lys Gly Gln Lys Pro Ala Glu Gly Asn Asn Asn Gln Gln Lys Gln
 35 40 45
 Glu Ile Gln Thr Ala Gln Asn Glu Pro Asp Lys Gln Ser Lys Thr Arg
 50 55 60
 Thr Asp Gly Arg Gly Lys Thr Gly Gln Pro Gln Lys Glu Gly Glu Glu
 65 70 75 80
 Lys Gly Thr Gln Glu Glu Gln Ala Glu Arg Thr Gln Ser Ser Arg Ile
 85 90 95
 Lys Ile Phe Thr Cys Pro
 100

<210> 10370

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10370

Pro Gly Lys Gly Trp Phe Gly Leu Gly Lys Arg Asn Pro His Gly Ala
 1 5 10 15
 Lys Gly Asn Tyr Asp Met Val Glu Thr Val Lys Gly Trp Lys Gly Thr
 20 25 30
 Met Gly Asn Met Gly Tyr Leu Gly Asp Gly Phe Ala Arg Ile Thr Arg
 35 40 45
 Gly Asp Ala Ser Leu Phe Leu Gly Lys Asn Lys Thr Leu Val Arg Met
 50 55 60
 Met Arg Lys Arg Arg Gln
 65 70

<210> 10371

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10371

Ile Leu Gln Leu Glu Ile Gln Phe His Lys Leu Leu Asp Ser Phe Pro
 1 5 10 15
 Asp Phe Asp Phe Phe Ser His Thr Leu Met Ala Arg Phe Pro Cys Leu
 20 25 30
 Phe Phe Ala Ser Leu Thr Ser Val Tyr Ser Ser Ser Thr Tyr Pro Thr
 35 40 45
 Leu His His His Leu Lys Ser Ile Phe Leu Ile Pro Leu Ser Phe Ser
 50 55 60

65

<210> 10372

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 10372

Arg Asp Leu Tyr Thr Val Leu Asn Gln Gly Glu Leu Met Asn Glu Leu
 1 5 10 15

Lys Ser Lys Asn Glu Asn Ser Thr Lys Ser Asn Phe Pro Pro Val Asp
 20 25 30
 Asn Gln Phe Cys Phe Tyr His Val Asp Phe Ser Ile Glu Arg Leu Leu
 35 40 45
 Ser Thr Ala Glu Asp Leu Gln Leu Glu Tyr Ile Phe Gln Lys Pro Gly
 50 55 60
 Ser Glu Val Arg Lys Asp Leu Val Glu Arg Phe Glu Arg Gly Glu Arg
 65 70 75 80
 Phe Val Thr Ala Ser His Cys Asp Asn Phe Cys Glu Ile Leu Gly Cys
 85 90 95
 Gln Gly His Gln Glu Asn Ala
 100

<210> 10373

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10373

Arg His Ile Pro Ala Cys Arg Ser Ala Asp Thr Ser Ala Arg Ala Phe
 1 5 10 15
 Phe Gly His His Ile Ser Gly Gln Glu Ile Leu Ser Gly Arg Gly Val
 20 25 30
 Thr Glu Gln Gln Leu Gly His Cys Gln Gln Leu Ala Asp Leu Thr Pro
 35 40 45
 Leu Ile Ala Lys Leu Gly Phe Cys Ser Asp Val Asp Leu Pro Phe Trp
 50 55 60
 Ala Gly Phe Gly Leu Leu Thr Leu Thr Ser Ile Ile Arg Asn Val Leu
 65 70 75 80
 Asp Asp Ala Asp
 85

<210> 10374

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10374

Tyr Arg Leu Thr Ser Tyr Ser Tyr Met Pro Val Cys Arg His Gln Cys
 1 5 10 15
 Leu Gly Tyr Phe Arg Ser Lys Gln Asp Leu Ala Arg Asp Leu Ile Lys
 20 25 30
 Arg Gly Val Thr Glu Gln Gln Leu Gly Ala Leu Ser Ser Ala Cys Lys
 35 40 45
 Phe Asn Pro Leu Asn Arg Gln Thr Trp Val Gln Ser
 50 55 60

<210> 10375

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10375

Val Met Pro Met Phe Thr Arg Ile Gln Lys Asp Asn Gly Trp Asp His
 1 5 10 15
 Leu Asn Asp Leu Arg Glu Lys Phe Asn Gly Lys Val Phe Lys Val Asn
 20 25 30
 Glu Gln Ile Ile Ser Arg Phe Gln Ile Lys Asn Thr Pro Ala Ile Ile
 35 40 45
 Thr Thr Asp Gln Asp Lys Phe Arg Ile Thr Leu Phe Ser Glu Ala Glu
 50 55 60

Val Arg Gly Ile Gly Ala Pro Asn Leu Ser Glu Glu Lys
65 70 75

<210> 10376

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 10376

Phe Leu Arg Val Lys Ile Met Lys Leu Arg Lys Thr Ile Ala Ser Thr
1 5 10 15
Ile Ile Ala Ser Met Ile Ala Asn Thr Met Ser Trp Ala Phe Tyr Ile
20 25 30
Ser Leu Ile Asn Met Val Met Thr Pro Arg Ile Tyr Ala Ala Asp Ala
35 40 45
Ile Phe Asp Gln Leu Glu Ser Asn Phe Asn Leu Ala Asn Pro Asn Ala
50 55 60
Asn Arg Asn Ala Thr Thr Ser Ala Gln Asp Ile Val Glu Lys Tyr Lys
65 70 75 80
Asn Ala Asp Ser Gly Glu Asn Val Ser Gly Lys Ile Thr Glu Lys Tyr
85 90 95
Val Gly Lys Ala Glu Ser Ala Asn Leu Asn Leu Gly Lys Tyr Gly Ala
100 105 110
Gly Asn Ser Asn Glu Ser Val Met Lys Asn Ala Ala Ser Asp Gly Lys
115 120 125
Ser Ile Gly Ser Ala Val Gln Leu Pro Ser Met
130 135

<210> 10377

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10377

Val Arg Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
1 5 10 15
Lys Lys Lys Lys Lys Tyr Pro Pro Gly Gln Ala Ser Ala Ser Tyr Ala
20 25 30
Pro Glu Pro His Leu Thr Val Phe Met Thr Asp Tyr Phe Ile Pro Ile
35 40 45
Arg Pro Gly Pro Thr Ile Val Ser Ile Ala Thr Arg Arg Glu Glu Ser
50 55 60
Ile Gly
65

<210> 10378

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10378

Ser Tyr His Val Thr Met Val Leu Ser Gly Leu Leu Asn Gln Lys Ile
1 5 10 15
Asn Trp Ser Thr Gly Ser Arg Gly Ile Leu Arg Lys Gln Cys Lys Arg
20 25 30
Asp Ser Ser Glu Ser Phe Phe Ile Cys Ile Glu Lys Gly Ser Ile Met
35 40 45
Asn Glu Asn Ile Leu Gln Gly Asn Arg Lys Asn Leu Ser His Tyr Pro
50 55 60
Arg
65

<211> 61

<212> PRT

<213> Enterobacter cloacae

Met 1	Lys	Thr	Tyr	Tyr 5	Lys	Val	Thr	Gly	Lys 10	Thr	Cys	His	Thr	Ile 15	His
Ala	Glu	Leu	Arg 20	Lys	Ile	Gly	Asp	Leu 25	Ile	Asn	Pro	Ile	Pro 30	Asn	Lys
Lys	Tyr	His 35	Ile	Lys	Arg	Met	Met 40	Thr	Lys	Ala	Thr	Arg 45	Leu	Leu	Leu
Ile	Lys 50	Ser	Ile	Ser	Glu	Arg 55	Ile	Lys	Asn	Asn	Arg 60				

<211> 307

<212> PRT

<213> Enterobacter cloacae

[illegible]

305

<210> 10381

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 10381

```

Met Phe Lys Glu Ser Asp His Val Glu Phe Val Ser Ala Phe Leu Tyr
1      5      10      15
Gln Asn Leu Gly Leu Asn Val Pro Ala Asp Asp Ile Thr Val Gln Leu
      20      25      30
Ser Asp Thr Ser Phe Asp Lys Val Thr Phe Asp Tyr Asp Val Asp Ile
      35      40      45
Asp Asn Leu Asn Cys Met Leu Asp Leu Tyr Ile Ser Glu Leu Ile Lys
      50      55      60
His Asn Ala Ser Tyr Ser Asp Ser Ile Leu Leu Lys Gln Lys Ile Ile
65      70      75      80
Tyr Phe Leu Gly Val Phe Lys Asn Phe Gly Phe Phe Thr Phe Asp Ile
      85      90      95
Arg Gly Tyr Ser Asn Thr Leu Ser Pro Val Lys Val Ile Asp Ile Val
      100      105      110
Ser Met Ile Ile Asn Asp Cys Glu Leu Ser Lys Ala Asn Ser Ser
      115      120      125
Thr Asp Ala Ile Arg Asn Leu Tyr Leu Asp Lys Met Lys Val Asp Gly
      130      135      140
Lys Val Leu Val Ala Lys Phe Ala Leu Lys Gln Phe Phe His Ser Asp
145      150      155      160
Phe Gly Asp Phe Ile Ser Phe Val Glu Glu Lys Asn Tyr Arg Leu Ser
      165      170      175

```

<210> 10382

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 10382

```

Ser Phe Ile Val Asn His Leu Arg Phe Pro Ile Val Leu Arg Glu Gly
1      5      10      15
Cys Lys Ile Glu Arg Gly Glu Val Tyr Ser Ile Ser Asn Cys Thr Tyr
      20      25      30
Asn Lys Glu Arg Leu Gln Tyr Leu Phe Ser Gln Asp Ile Tyr Gly Lys
      35      40      45
Leu Tyr Asn Ser Leu Glu Lys Glu Leu Ser Ser Phe Phe Ser Phe Ile
      50      55      60
Asn Val Glu Val His Glu Leu Leu Lys Asp Ala Val Cys Phe Ala Leu
65      70      75      80
Lys Ile Leu Asn Lys Ile Ser Leu Asp Thr Pro Glu Arg Leu Ile Lys
      85      90      95
Ala Phe Asn Tyr Arg Asp Trp Tyr Cys Ser Tyr Asp Val Glu Leu Phe
      100      105      110
Arg Lys Gly Leu Pro Gly His Ile Leu Glu Glu Leu Ile Ala Pro Asp
      115      120      125
Ile Leu Leu Ser Asp Leu Asn Gly Cys Arg Lys Ile Leu Arg Asn Ala
      130      135      140
Lys Arg Phe Leu Asn Gly His Thr Lys Thr Asn Cys Val Tyr Ile Lys
145      150      155      160
Tyr Glu Trp Trp Leu Gly Pro Val Asp Thr Ser His Ser Ala Lys Leu
      165      170      175

```

Met Ser Asp Lys Glu Ile Asn Asn Arg Ser Asp Leu Lys Asn Phe Ser
 180 185 190
 Lys Val Phe Phe Lys Glu Cys Leu Ser Ser Gly Lys Ser Glu Tyr Glu
 195 200 205
 Asn His Leu Ser Glu Lys Glu His Ala Leu Arg Tyr Asn Tyr
 210 215 220

<210> 10383

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 10383

Leu Arg Asn Leu His Leu Asn Ser Phe Phe Ile Pro Thr Leu Val Thr
 1 5 10 15
 Leu Ser His Leu Ser Lys Lys Arg Ile Thr Asp Cys Leu Asn Glu Thr
 20 25 30
 Leu Arg Ile Ile Lys Ala Val Glu His Gly Phe Val Arg Val Gly Gln
 35 40 45
 His Lys Ile Asn Arg Arg Ile Asn Asp Asp Leu Lys Leu Cys Ile Asp
 50 55 60
 Phe Asn Thr Asp Asp Tyr Pro Ala Asn Met Pro Asp Ile Tyr Ile Lys
 65 70 75 80
 Phe Asn Asp Thr Phe Asp Gly Asn Gly Ala Leu Tyr Cys Asp Asn Asp
 85 90 95
 Ala Leu Ile Ser Leu Tyr Thr Asp Val Ala Ser Ile Ile Asn Val Pro
 100 105 110
 Val Met Met Glu Val Arg Leu Ile Asn Lys Arg Gly Arg Val Val Cys
 115 120 125
 Asp Ser Ser His Ser Thr Tyr Val Ser Leu Glu Ser Asn Asp Arg Tyr
 130 135 140
 Arg Val Thr Asp Arg Thr Leu Leu Ile Thr Glu Ala Phe Asp Asp Phe
 145 150 155 160
 Arg Asn Ala Ser Gln
 165

<210> 10384

<211> 90

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (24)

<400> 10384

Pro Asn Phe Tyr Leu Thr Gln Trp Gly Ser Arg Phe Pro Ser Gly Ala
 1 5 10 15
 Leu Pro Leu Lys Phe Glu Val Xaa Tyr Met Thr His Ser Ser Asp Asp
 20 25 30
 Lys Asn Tyr Val Arg Ala Val Leu Ser Tyr Leu Gly Ile Asp Phe Asp
 35 40 45
 Glu Ala Asp Ile Val Leu Ser Val Cys His Cys Gln Ser Asp Glu Leu
 50 55 60
 Ser Phe Thr Cys Asn Ile Lys Ala Ile Glu Leu Lys Asn Ala Val Asp
 65 70 75 80
 Leu Tyr Val Asp Ser Ile Ser Glu Gln
 85 90

<210> 10385

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10385

```

Ile Arg Tyr Leu Trp Ile His Leu Lys Asp Leu Leu Lys Leu Leu Ile
1          5          10          15
Ile Val Thr Gly Ile Val Val Thr Met Leu Ser Phe Leu Gly Lys Ala
          20          25          30
Tyr Leu Val Ile Phe Trp Lys Ser Ser Leu Leu Gln Ile Ser Tyr Phe
          35          40          45
Gln Thr Leu Thr Val Val Glu Lys Tyr Leu Glu Met Gln Asn Asp Phe
          50          55          60

```

65

<210> 10386

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10386

```

Ile Gln Gln Ile Ala Val Lys Asn Ser Thr Ala Leu Asn Asp Lys Lys
1          5          10          15
Ile Pro Phe Asn Thr Thr Lys Ile Thr Leu Ala Ile Ile Ile Asn Phe
          20          25          30
Ile Tyr Tyr Arg His Ser Val Leu Asn Val Cys Leu Ser Leu Ile Glu
          35          40          45
Pro Asp Ala Ser His Ser Val Phe Phe Tyr Leu Ser Leu Arg Gln Pro
          50          55          60
Thr Phe Asn Val Leu Pro Leu Gly Asn Asp Asn Asp Tyr
65          70          75

```

<210> 10387

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10387

```

Val Asn Phe Asp Tyr Phe His Leu Trp Asp Ile Lys Ser Leu Ile Leu
1          5          10          15
Phe Thr Ser Arg Leu Ile Pro Thr Lys Ile Phe Gln Met Ile Leu Arg
          20          25          30
Ala Leu Gln His Ile Asn Gln Asn Leu Lys Asp Cys Ser Glu Glu Pro
          35          40          45
Ala Phe Leu Leu Pro Tyr Tyr Leu Ala Ile Phe Phe Phe
          50          55          60

```

<210> 10388

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10388

```

Arg Gln Gly Leu Thr Gln Arg Glu Leu Ser Ala Met Leu Gly Val Thr
1          5          10          15
Gln Gln Thr Tyr Ala Arg Leu Glu Ala Asn Pro Ser Lys Ala Ser Phe
          20          25          30
Glu Arg Leu Tyr Lys Val Leu His Ile Leu Gly Val Glu Ile Ser Leu
          35          40          45
Ser Ser Ala Pro Leu Ser Thr Tyr Thr Lys Pro Thr Asn Phe Val Glu
          50          55          60

```

Lys Glu Phe Asp Ser Pro Ala Arg Arg Glu Glu Trp
65 70 75

<210> 10389

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 10389

Lys Leu Thr Phe Ser Val Leu Ile Thr Ala Cys Gly Asp Lys Asp Gly
1 5 10 15
Gln Val Lys Asn Gln Ser Val Arg Ile Val Asp Ile Gln Gln Val Ile
20 25 30
Ile Asn Ser Gly Leu Ala Glu Gln Glu Ala Glu His Leu Lys Ser Val
35 40 45
Arg Lys Thr Leu Ala Asp Gly Leu Thr Leu Ala Gln Ala Gln Tyr Glu
50 55 60
Asn Leu Pro Glu Glu Lys Lys Asn Glu Ala Lys Gln Asn Asp Asn Lys
65 70 75 80
Leu Ile Glu Tyr Gln Trp Gln Asn Glu Arg Phe Leu Ala Arg Lys Ala
85 90 95
Val Gly Gln Thr Ile Gln Asn Ala Ile Asp Lys Trp Arg Ile Lys Asn
100 105 110
Asn Ile Ser Ile Ile Ile Pro Arg Gln Gln Ala Leu Ser Leu Asp Glu
115 120 125
Gly Leu Asp Ile Thr Pro Leu Ile Val Lys Glu Leu Lys Gly Ala Lys
130 135 140
Val Lys Phe Gly Glu Leu Pro Val Ile Ser Leu Lys Gln Lys Glu Asn
145 150 155 160
Ser Pro Ser Glu Lys Glu Asn Gly
165

<210> 10390

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10390

Ser Phe Lys Leu Ile Asn Lys Arg Gln Val Leu Met Leu Ser Asn Ile
1 5 10 15
Arg Met Asp Arg Ile Lys Asn Gln Ser Leu Arg Leu Val Asp Ile Gln
20 25 30
Gln Val Ile Ile Ile Ser Gly Leu Asp Arg Gln Glu Ala Asn His Leu
35 40 45
Lys Lys Leu Gln Gly Lys Ser Ser Ser Met Asp Leu Arg Leu Leu Arg
50 55 60
Arg Ser Val
65

<210> 10391

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10391

Ser Pro Glu Lys Thr Ser Gly Glu Lys Phe Ile Asp Gly Leu Ala Leu
1 5 10 15
Ala Gln Ala Leu Ser Met Lys Ile Tyr Ile Lys Arg Arg Gln Met Arg
20 25 30
Gln Tyr Asp Asn Lys Phe Ile Glu Tyr Leu Gly Arg Arg Ser Gly Lys
35 40 45

Leu Val Leu Leu Ser Thr Lys Gly Leu Leu Ser Asn Lys Thr Thr Val
 50 55 60
 Ser Ala Phe Leu Gly Ile
 65 70

<210> 10392

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 10392

Ile Ala Cys Gly Leu Thr Phe Lys Asn Ser Cys Lys Gly Gly Gln Met
 1 5 10 15
 Leu Ser Ser Lys Lys Arg Lys Ser Pro Thr Asn Ile Lys Glu Ser Leu
 20 25 30
 Asn Asp Asn Ala Asp Arg Phe Tyr Lys Met Phe Arg Ile His Thr Thr
 35 40 45
 Ala Lys Val Ala Met Ser Leu Ile Ala Met Thr Ala Val Gly Phe Ser
 50 55 60
 Phe Tyr Asn Leu Tyr Glu Gln Trp Gln Asp Ala Glu Gly Lys Lys Asp
 65 70 75 80
 His Ile Ala Val Ile Arg Ile Ser Gly Glu Met Gly Thr Gly Ser Glu
 85 90 95
 Thr Gly Asp Gly Thr Val Ile Ala Thr Ala Leu Ala Lys Ala Tyr Asn
 100 105 110
 Asn Pro His Ala Lys Ala Val Ile Ile Glu Ala Glu Ser Gly Gly Gly
 115 120 125
 Gly Pro Ser Asp Ala Ile Ile Ile Tyr Arg Gln Ile Asn Ala Leu Lys
 130 135 140
 Asn His Gln Pro Gln Ile Glu Arg Val Ser Asp Ala Gly Gly Ser Leu
 145 150 155 160
 Ser Ser Val Ala Ala Asp Lys Ser Asn Lys Thr Gly Ser Thr Glu Arg
 165 170 175
 Gly Asp Glu Ala Arg Ser Lys Gln Asn Ser Leu Glu Val Leu Ser Ser
 180 185 190
 Gly Thr Gly Arg Phe Phe Ser Asp Ile Ala Asp Ser Tyr Lys Pro Ile
 195 200 205
 Ile Val Ser Val Lys Gly Ile Cys Ala Ser Ala Cys Tyr Tyr Ala Val
 210 215 220
 Ser Pro Ala Asp Ala Ile Tyr Ala Asp Ser Asn Ala Leu Ile Gly
 225 230 235

<210> 10393

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 10393

Thr Ser Tyr Arg Arg Gly Ile Lys Pro Gln Ile His Pro Glu Thr Thr
 1 5 10 15
 His Ser His Ile Val Thr Ile Glu Asp Ser Pro Phe Leu Ser Arg Leu
 20 25 30
 Lys Phe Lys Ile Ile Thr Ala Ile Asp Gln Leu Pro Asp Pro Asn Gly
 35 40 45
 Leu Tyr Thr Asn Thr Phe Asn Ser Ile Ile Asp Arg Ala Leu Leu Thr
 50 55 60
 His Leu Lys Thr Glu Gln Glu Lys Ile Asp Ser Pro Arg Val Cys Lys
 65 70 75 80
 Asn Val Ile Ser Ala Phe Ala Asp Ser Thr Leu Ser Leu Pro Val Phe
 85 90 95
 Asn Ile Gly Leu Asn Glu Gln Tyr Arg Tyr Trp Thr Pro Trp Gly Ile

100 105 110
 Asn Phe Ile Glu Phe Ser Arg Gln Ala Ala Lys Ala Arg Thr Ala Val
 115 120 125
 Phe Val Pro Asp Val Gly Gln Ile Glu Trp Lys Ser Ala Glu His Lys
 130 135 140
 Glu Leu Ala Glu Leu Ser Leu Ile Asp Gln Ile Ile Pro Lys Gln Tyr
 145 150 155 160
 His Trp Leu Leu Gly Ile Pro Thr Met Trp Arg Asn Asn Tyr Cys Asn
 165 170 175
 His Asp Gln Arg Leu Ala Leu Phe Arg Glu Trp Arg Glu Ser Asn Gly
 180 185 190
 Cys Gly
 195

<210> 10394

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 10394

Leu Phe Phe Val Asn Gly Gly Lys Ala Met Ala Ala Asp Asn Thr Ser
 1 5 10 15
 Arg Ala Ala Val Leu Arg Thr Met Leu Phe Phe Gly Met Val Ile Tyr
 20 25 30
 Phe Gly Tyr Ser Leu Ala Phe Gln Asn Thr Glu Glu Leu Lys Tyr Gln
 35 40 45
 Ile Thr Gln Glu Val Asn Ala Ser Arg Ser Ile Ile Ser Asn Asp Arg
 50 55 60
 Trp Lys Ser Val Ile Ala Asn Ser Glu Ala Thr Leu Asn Trp Leu Val
 65 70 75 80
 His Asp Tyr Lys Leu Ile Asp Tyr Leu Asn Thr Ile Leu Ile Pro Asp
 85 90 95
 Thr Lys Lys Pro Ala Arg Gly Ile Asn Ile Val Ala Glu Lys Phe Thr
 100 105 110
 Ser Ile Asn Tyr Thr Met Ala Lys Asn Ile Pro Leu Leu Leu Tyr Gln
 115 120 125
 Ser Ile Phe Arg Trp Asn Leu Ile Leu Gly Trp Leu Ile Val Phe Leu
 130 135 140
 Pro Tyr Leu Phe Ala Met Leu Ala Asp Gly Met Tyr Gln Trp Lys Leu
 145 150 155 160
 Lys Arg Tyr Val Phe Gly Lys Val Thr Val Gln Phe Tyr Arg Ile Trp
 165 170 175
 Phe Arg Ala Phe Trp Val Ile Ser Ala Leu Thr Met Val Tyr Leu Val
 180 185 190
 Met Pro Asn Met Ser Leu Phe Asn Asn Ile Ala Gln Leu Phe Pro Pro
 195 200 205
 Val Ala Leu Leu Ile Leu Gly Ile Ala Leu Asn Arg Leu Trp Ser Asn
 210 215 220
 Phe Gln Lys Leu Met
 225 230

<210> 10395

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 10395

Gly Ser Met Asn Asn Ile Phe Leu Gln Phe His Ile Tyr Gly Leu Asp
 1 5 10 15
 Ala Ser Lys Asp Tyr Ser Leu Ser Ile Ile Thr Arg Asn Gly Ser Gln
 20 25 30

Pro Ala Thr Val Ile Asn Ile Asp Asp Pro Lys Asn Arg Asp Leu Ala
 35 40 45
 Leu Leu Lys Val Glu Lys Asn Thr Ile Val Lys Ala Pro Pro Asn Trp
 50 55 60
 Lys Leu Pro Val Cys Asp Asn Val Leu Ala Pro Gly Glu Ser Val Trp
 65 70 75 80
 Val Leu Ser Gly Met Tyr Asn Thr Leu Ser Asn Thr Tyr Ala Ser Pro
 85 90 95
 Asp Ser Thr Tyr Tyr Lys Gly Ile Val Gly Ser Asp Gly Leu Thr
 100 105 110
 Ala Phe Tyr Gln Asn Gly Val Ser Gly Ser Ala Val Leu Asn Gln Ser
 115 120 125
 Lys Ser Cys Leu Tyr Gly Val Val Ser Gln Gln Asp Ile Lys Lys Ile
 130 135 140
 Asn Val Tyr Gln Ile Tyr Ile Thr Lys Ile Thr Thr Asn Glu Ile Ile
 145 150 155 160
 Arg Gly Phe Ile Gly Tyr Lys Asn Asn
 165 170

<210> 10396

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 10396

Met Ser Val Ile Leu Gln Gln Ala Ile Pro Thr Leu Ser Ala Leu Val
 1 5 10 15
 Tyr Leu Ser Glu Pro Leu Lys Gly Thr Ser Ile Met Tyr Lys Leu Leu
 20 25 30
 Pro Ala Ile Leu Val Phe Leu Ser Val Phe Leu Gly Leu Ile Ala Leu
 35 40 45
 Leu Ser Ala Ile Lys Asn Gly Ser Asp Glu Leu Ala Val Phe Leu Ile
 50 55 60
 Thr Leu Ser Ala Trp Phe Ala Ala Leu Ser Lys Phe Tyr Ser Leu Lys
 65 70 75 80
 Leu Tyr Lys Asn Ser
 85

<210> 10397

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10397

Arg Lys Ser Thr Thr Ala Leu Ser Tyr Tyr Ile Tyr Gly Ala Lys Glu
 1 5 10 15
 Asp Gly Gly Glu Val Val Leu Arg Pro Phe Ile Val Asn Pro Asp Glu
 20 25 30
 Leu Met Leu Thr Pro Ala Asp Val Val Glu Phe Asn Ser Gln Val Ile
 35 40 45
 Asn Val Asp Arg Gln Arg His Pro Glu Trp Phe Arg
 50 55 60

<210> 10398

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10398

Pro Pro Pro Pro Phe Leu Gly Gly Leu Gly Ala Trp Gly Met Val Tyr
 1 5 10 15

Met Thr Lys Gln Gly Leu Glu Gly Ser Thr Gln Gln Leu Lys Ala Asn
 20 25 30
 Trp Gln Asp Leu Pro Asp Ser Val Pro Asp Val Lys Gly Tyr Thr Gly
 35 40 45
 Trp Asp His Met Arg Cys Asp Met Asp Ala Gly Arg
 50 55 60

<210> 10399

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 10399

Leu Met Lys Gly Leu Cys Thr Val Leu Ala Ala Thr Ser Val Val Leu
 1 5 10 15
 Ala Thr Gly Cys Gln Ala Lys Glu Pro Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Phe Leu Glu Leu Lys Gly Trp Gly Cys Glu Gly
 35 40 45
 Glu Leu Trp Tyr Thr Asp Thr Leu Arg Gly Ile His Thr Arg Pro Val
 50 55 60
 Ser Gln Phe Tyr Arg Ile Phe Thr Lys Lys Phe Val His Pro Ser Glu
 65 70 75 80
 Arg Tyr Ile Ala Ile Pro Thr Trp Asp Asp Pro Gly Thr Met Ile Ser
 85 90 95
 Lys Asp Tyr Gly Lys Thr Trp Ser Pro Gln Phe Phe Ser Val Gly Pro
 100 105 110
 Asn Glu Pro Asp Gly Thr Asn Gln Pro Ser Tyr Glu Asp Ile Ile Ser
 115 120 125
 Phe Thr Val Val Asn Asp Gln Gly Phe Leu Leu Thr Lys His Arg Leu
 130 135 140
 Tyr Met Ser Ser Lys Pro Phe Glu Asp Pro Arg Ile Leu Pro Gly Gly
 145 150 155 160
 Pro Gly Ile Ala Tyr Thr Val Asp Asp Gly Met Arg Asn Lys Val Ser
 165 170 175
 Asp Thr Leu Asp Pro Arg Phe Pro Gly Trp Ala Trp Gly Met Val Tyr
 180 185 190
 Met Thr Lys Gln Gly Leu Lys His Ser Thr Gln Gln Phe Lys Ala Asn
 195 200 205
 Trp Gln Asp Leu Pro Asp Ser Val Pro Glu Val Lys Gly Tyr Thr Gly
 210 215 220
 Trp Asp His Met Arg Cys Asp Met Asp Ala Gly Arg
 225 230 235

<210> 10400

<211> 237

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (212)

<400> 10400

Leu Met Lys Gly Leu Cys Thr Val Leu Ala Ala Thr Ser Val Val Leu
 1 5 10 15
 Ala Thr Gly Cys Gln Ala Lys Glu Pro Pro Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Phe Leu Glu Leu Lys Gly Trp Gly Cys Glu Gly
 35 40 45
 Glu Leu Trp Tyr Thr Asp Thr Phe Arg Gly Ile His Thr Arg Pro Val

```
<210> 10401
<211> 68
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 10401
Gly Asp Lys Ala Met Lys Gly Val Ile Arg Leu Asn Asp Pro Leu Ile
1      5      10
Ser Gly Arg Lys Val Thr Lys Ala Ser Gly Ala Asn Xaa Met Gly Gln
20     25     30
Pro Val Ala Leu Lys Asp Asp Leu Ala Gln Cys Pro Leu His Lys Gly
35     40     45
Lys Phe Ala Ile Thr Asp Cys His Gln Pro Gly Thr Cys Ile Gly Leu
50     55     60
Gly Leu Trp
65

```

```
<210> 10402
<211> 66
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 10402
Met Ala Lys Leu Thr Asp Ile Tyr Ser Tyr Pro Ser Leu Ile Glu Ile
1      5      10
Ala Tyr Gln Ala Leu Ser Tyr Leu Ser Phe Asn Leu Ser Thr Val Tyr
20      25      30
Ile Arg Lys Arg Asp Lys Lys Gln Phe Leu Tyr Asn Leu Phe Phe Val
35      40      45
Ser Lys Gly Asp Ser Phe Asp Thr Ala Glu Lys Gly Leu Lys Arg Cys
50      55      60
Val
65

```

<210> 10403
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10403
 Thr Gly Asp Gln Asp Arg Glu Trp Phe Gly His Glu Cys Phe Arg Arg
 1 5 10 15
 Gly Gly Gly Glu Tyr Gln Leu Lys Ala Gly Val Tyr Gln Ser Trp Ser
 20 25 30
 His Ser Leu Leu Val Lys Val Arg His Ile Ile Lys Thr Lys Arg Gly
 35 40 45
 Lys Lys Leu Phe Ala Gln Gly Asn Ile Pro Leu Arg Lys
 50 55 60

<210> 10404
 <211> 101
 <212> PRT
 <213> Enterobacter cloacae

<400> 10404
 Ala Arg Asp Ser Ala Arg Pro Val Arg Gln Asp Glu Gly Ala Lys Ala
 1 5 10 15
 Gly Ala Leu Val Pro Ala Thr Arg Gln Ile Thr Val Lys Pro Val Arg
 20 25 30
 His Gly Ser Asp Gln Glu Asn Lys Arg Thr Gly Lys Arg Pro Asp
 35 40 45
 Asp Arg Gln Val Lys Cys Gln Asp Glu Glu Arg Asn Glu His Asn Ala
 50 55 60
 Lys Glu Ser Glu Gln Arg Arg Asp Ile Lys Ser His Asp Asp Gly Asn
 65 70 75 80
 Cys Leu Leu Ser Val Lys Phe Ser Ser Met Leu Leu Gln Ser Pro Gln
 85 90 95
 Cys Phe Asn Glu
 100

<210> 10405
 <211> 74
 <212> PRT
 <213> Enterobacter cloacae

<400> 10405
 Ile Met Asn Ile Thr Asp Lys Glu Leu Ile Ser Asn Thr Val Arg Gln
 1 5 10 15
 Tyr Gly Trp Asn Leu Arg Glu Phe Asn His Ser Thr Pro Phe Thr Ser
 20 25 30
 His Phe Ile Tyr Ile Thr Asp Tyr His Lys Asp Asn Thr Trp Met Ile
 35 40 45
 Ser Leu Ser Gln Glu Asp Phe Asn Thr Thr Lys Ile Leu Thr Ser Leu
 50 55 60
 Ser Leu Gly Lys Val Arg Thr Ser Ser
 65 70

<210> 10406
 <211> 172
 <212> PRT
 <213> Enterobacter cloacae

<400> 10406
 Met Val Glu Ala Arg Tyr Gln Gly Lys Pro Val Ser Ser Leu Pro Glu


```

1           5           10           15
Glu Ala Phe Ala Glu Gly Leu Ser Arg Ser Gly Leu Ser Pro Val Leu
20
Leu Leu Ala Ser Pro Thr Thr Val Pro Val Thr Thr Asp Glu Arg Trp
35
Trp Leu Ala Lys Glu Asn Val Ser Gly His Tyr Gly Arg Ile Phe Tyr
50
Ala Ala Val Arg Glu Leu Val Ile Arg Ser Asp Ile Ile Ser Val Val
65
Arg Ser Ile Ala Asp Glu Asn Phe Thr Ser Glu His Met Gly Tyr Phe
85
Glu Arg Leu Thr Ser Asp Glu Lys Glu Val Val Phe Ser Asp Tyr Leu
100
Arg Thr Leu Ala Glu Gly Gly Leu Thr Cys Thr Glu Lys Asn Leu Val
115
Lys Leu Thr Gln Asp Leu Tyr Pro Ile Asp Ala Thr Pro Asp Asn Ile
130
Arg Lys Leu Ser Thr Asp Arg Asp Ala Leu Asn Glu Leu His Ile Asp
145
Gly Met Val Leu Phe Ile Thr Gly Pro Ala Leu
165
170

```

<210> 10407

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 10407

```

Arg Ser Asn Met Ile Val Asn Lys Asn Arg Phe Met His Lys Asn Gly
1           5           10           15
Lys Arg Phe Lys Ser Ile Gly Arg Tyr Leu Arg Phe Trp Gln Ala Val
20
Ala Ser Ser Gly Leu Pro Met Asp Met Val Ile Arg Glu Lys Pro Tyr
35
Gln Leu Met Val Ala Leu Ile Ala Leu Tyr Thr Ala Ile Pro Val Val
50
Thr Ile Val Ile Leu Ser Gly Gln Gln Ser His Lys Leu Glu Leu Ile
65
Ala Val His Phe Ser Thr Ile Ile Thr Met Val Phe Val Leu Arg Arg
85
Lys Met Gly Lys Arg Trp Leu Asp Leu Phe Glu Glu Lys Leu Ala Ile
100
Tyr Lys Pro Asn Asp Lys Leu Ala Leu Ser Glu Leu His Glu Ser Ile
115
Arg Glu Lys Asn Gly Leu Asp Leu Gln Asp Leu Gln Asp Trp Tyr Trp
130
Lys Glu Lys Met Thr Tyr Glu Tyr His Lys Glu Arg Lys Thr Thr Ile
145
Ser Tyr Gln Lys Phe Lys
165

```

<210> 10408

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10408

```

Tyr Gly Phe Ser Arg Ile Thr Met Ser Met Gly Lys Pro Glu Asp Ala
1           5           10           15
Thr Ala Cys Gln Asn Leu Lys Tyr Leu Pro Met Asp Leu Asn Leu Phe
20
25
30

```

Pro Phe Leu Cys Ile Asn Leu Phe Leu Phe Thr Ile Met Leu Asp Leu
 35 40 45
 Tyr Phe Ser Val Ile Leu Glu Cys Tyr Leu Asn Pro
 50 55 60

<210> 10409

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10409

Ile Thr Pro Lys Leu Cys Thr Ser Ser Met Phe Leu Ala Cys Trp Leu
 1 5 10 15
 Ser Ile Leu Met Ala Ala Ile Ala Phe Ala Leu Ser Lys Ser Ala Ala
 20 25 30
 Lys Met Ala Ile Ala Ile Leu Phe Met Ile Cys Ala Pro Arg Leu Arg
 35 40 45
 Ala Val Ile Arg Gly Asn Ala Leu Leu Leu Cys Ser Gly Phe Leu Ile
 50 55 60
 Lys Val
 65

<210> 10410

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10410

Arg Asp Pro Pro Gly Phe Leu Ile Pro Pro Phe Ser Ala Ser Pro Cys
 1 5 10 15
 Arg Lys Arg Gly Lys Arg His Lys Thr Thr Thr Ile Leu Gln Ile Gly
 20 25 30
 Asp Leu Ala Gly Cys Phe Ile Ala Pro Leu Asn Asp Ile Leu Pro Val
 35 40 45
 Val Arg Ser Lys Ile Val Asp Asn Tyr Asn Ile Pro Leu Asn
 50 55 60

<210> 10411

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10411

Arg Arg Trp His Met Glu Ile Asp Leu Asp Asn Leu Leu Phe Asn Gly
 1 5 10 15
 Leu Asp Glu Ala Glu Glu Arg Asn Ala Glu Arg Leu Asp Asp Ala Asp
 20 25 30
 Lys Lys Ala Gln Ala Ile Val Ala Asp Asp Asp Cys Gly Glu Cys Leu
 35 40 45
 Gln Asp Leu Lys Lys Lys His Arg Ala Pro Arg Cys Phe Phe Tyr Glu
 50 55 60
 Cys Leu Leu Leu Pro Asp Ile Arg Ser Pro Ala Phe Cys
 65 70 75

<210> 10412

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10412

Pro Gly Lys Lys Gln Arg His Arg Cys Glu Gln Ile Lys Leu His Ala

1			5					10				15			
Lys	Val	Leu	Val	Ile	Thr	Lys	Arg	Val	Asn	His	His	Phe	Glu	Asn	Phe
			20					25				30			
Lys	Gln	Ile	Pro	Gln	Cys	Gln	Gln	Tyr	Gly	Glu	Pro	Gly	Lys	Ile	Asp
		35					40					45			
Asn	Leu	Pro	Asn	Ser	Thr	Met	Val	Tyr	Gly	Phe	Thr	Glu	Ile	Arg	Thr
	50					55					60				
Val	Lys	Glu	Ser	Gln	Met	Lys	His	His	Ile	Pro	Lys	Ser			
65					70					75					

<210> 10413

<211> 370

<212> PRT

<213> Enterobacter cloacae

<400> 10413

Val	Asp	His	Phe	Leu	Pro	Val	Val	Asp	Lys	Met	Ala	Leu	Asn	Tyr	Ile
1				5				10					15		
Arg	Ala	Glu	Arg	Glu	Ala	Glu	Glu	Pro	Tyr	Arg	Gln	Met	Leu	Ser	Gln
			20					25				30			
Ala	Leu	Ala	Asp	Gly	Asn	Ile	Gly	Pro	Asn	Leu	Arg	Ser	Glu	Leu	
		35					40				45				
Ile	Asp	Arg	Cys	Ile	Val	Ala	Trp	Arg	Ala	Asp	Asn	Arg	Gly	Ala	Thr
	50					55				60					
Leu	Glu	Ala	Ala	Met	Ser	Thr	Glu	Lys	Gly	Ser	Lys	Glu	Leu	Leu	Asn
65				70					75					80	
Gln	Leu	Tyr	Met	Leu	Ala	Asp	Val	Gly	Leu	Lys	His	Leu	Pro	Gly	Val
			85					90					95		
Arg	Asn	Phe	Ile	Ser	Ser	Lys	Gly	Tyr	Glu	Leu	Val	Arg	Leu	Ser	Val
			100					105					110		
Asn	Ala	Ser	Gly	Lys	Leu	Val	Ala	Tyr	Ala	Ala	Pro	Ala	Asn	Phe	Glu
		115					120				125				
Cys	Asp	Asn	Arg	Met	Glu	Gly	His	Ala	Trp	Val	His	Arg	Met	Val	Leu
	130					135					140				
Ala	Thr	Ser	Arg	Asn	Val	Leu	Asn	Val	Thr	His	Gln	Arg	Phe	Ala	Lys
145					150					155				160	
Met	Lys	His	Phe	Leu	Pro	Ala	Glu	Asn	Thr	Leu	Phe	Glu	Asp	Glu	Gln
			165						170					175	
Leu	Val	Ala	Thr	Trp	Ser	Gly	Lys	Lys	Thr	Ala	Phe	Lys	Ser	Phe	Glu
		180						185					190		
Glu	Lys	Gln	Arg	Tyr	Phe	Asp	Thr	Cys	Ser	Arg	Gly	Ala	Gln	Ala	Leu
		195					200				205				
Lys	Gln	Phe	Leu	Lys	Leu	Asn	Asp	Pro	Val	Ile	Tyr	Thr	Asn	Leu	Leu
	210					215					220				
Gly	Gln	Trp	Ile	Glu	Ala	Tyr	Glu	Ser	Ile	Asn	Glu	Thr	Ser	Glu	Tyr
225					230					235				240	
Val	Gln	Gln	Val	Ser	Leu	Met	Ala	Pro	Val	Ala	Val	Lys	Ser	Glu	Lys
			245					250						255	
Gly	Lys	Ala	Ser	Leu	Ile	Tyr	Ile	Gly	Thr	Lys	Asp	Leu	Ala	Asp	Trp
		260						265					270		
Phe	Tyr	Gln	Lys	Ala	Pro	Thr	Pro	Glu	Leu	Gln	Ala	Leu	Phe	Leu	Glu
		275					280				285				
Glu	Tyr	Leu	Ser	Lys	Phe	Glu	Asn	Lys	Glu	Val	Asn	Lys	Glu	Lys	Leu
	290					295					300				
Leu	Ser	Arg	Arg	Asn	Thr	Ala	Leu	Ser	Leu	Ser	Phe	Tyr	Thr	Met	Asp
305					310					315				320	
Asn	Gly	Glu	Val	Pro	Asp	Glu	Ile	Leu	Val	Thr	Lys	Ser	Val	Asp	Asn
			325						330					335	
Ala	Arg	Arg	Trp	Tyr	Ser	Gly	Met	Phe	Thr	Ser	Met	Pro	Thr	Met	Leu
		340						345					350		
Asn	Asp	Gln	Trp	Ser	Val	Phe	Thr	Thr	Gly	Ala	Gly	Arg	Ile	Arg	Ala

355
Tyr Leu
370

360

365

<210> 10414

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 10414

Asn	Trp	Gln	Ile	Cys	Tyr	Thr	Val	Asn	Leu	His	Arg	Arg	Val	Ile	Val
1			5					10					15		
Arg	Phe	His	Arg	Arg	Tyr	Leu	Leu	Ser	Lys	Val	Ser	Arg	Phe	Ala	Thr
			20					25					30		
Phe	Phe	Met	Tyr	Ser	Leu	Ser	Gly	Leu	Glu	Ser	Phe	Ile	Val	Gln	Ser
		35					40					45			
Pro	Glu	Gly	Ala	Pro	His	Arg	Leu	Pro	Glu	His	Trp	Trp	Ser	Gln	Leu
	50					55					60				
Lys	Cys	Asp	Cys	Ser	His	Pro	Lys	Ala	Leu	Ile	Thr	Gly	Tyr	Lys	Ser
65					70					75				80	
Ile	Gly	Gly	Arg	Gln	Cys	Asp	Ser	Thr	Thr	Val					
			85					90							

<210> 10415

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10415

Arg	Arg	Gly	Arg	Arg	Tyr	Leu	Met	Tyr	Arg	Asn	Asp	Arg	Asn	Val	Asp
1			5					10					15		
Ser	Phe	Asn	Leu	Val	Asn	Ala	Leu	Gln	Pro	Val	Phe	Arg	Asn	Thr	Gly
		20						25					30		
Cys	Gly	Met	Phe	Glu	Tyr	Asp	Arg	Lys	Lys	Gln	Asn	Glu	Thr	Ala	Asp
		35					40					45			
Ser	Ile	Leu	Arg	Ala	Leu	Ala	Leu	Asn	Ala	Asp	Phe	Ala	Arg	Ala	Leu
	50					55				60					
Lys	Gln	Tyr	Val	Arg	Ile	Asn	Ser	Val	Arg	Arg	Val	Val	Gln	Phe	Asp
65				70					75					80	
Asp	Gly	Ser	Val	Arg	Tyr	Gly	Ile	His	Ala	Glu	Phe	Glu	Gly	His	Asn
			85					90						95	
Lys	Ile	Asn	Ser	Phe	Arg	Ile	Phe	Lys	Asp	Glu	Asp	Thr	Asp	Ala	Phe
		100						105					110		
Asp	Ser	Tyr	Phe	Tyr	Ser	Val	Cys	Asp	Asn	Lys	Ala	Glu	Leu	Val	Asp
		115					120					125			
Phe	Lys	Met	Asp	Ser	Leu	Asp	Ile	Gln	Leu	Gln	Ala	Val	Phe	Glu	Lys
	130					135					140				
Val	Thr	Gly	Ile	Phe	Leu	Ser	His								
145					150										

<210> 10416

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 10416

Lys	Lys	Leu	Gln	Cys	Gly	Leu	Leu	Ala	Ser	Arg	Ser	Glu	Phe	Tyr	Ile
1			5					10					15		
Ile	Pro	Lys	Asn	Thr	Gly	Gly	Ile	Met	Lys	Thr	Asn	Leu	Ala	Tyr	Ala
		20						25				30			
Ser	Asn	Cys	Ser	Asp	Ser	Val	Tyr	Ser	Tyr	Ile	Tyr	Gln	Ala	Leu	Gln

```

      35      40      45
Lys Arg Ser Gly Ala Glu Asn Glu Ser Leu Tyr Gln Gln Ala Ile Ser
  50      55      60
Ser Cys Cys Thr Asp Lys Gln Lys Lys Lys Leu Ala Gly Tyr Tyr Ala
  65      70      75      80
Gly Pro Trp Lys Leu Phe Asn Ala Trp Cys Asn Asn Arg Val Pro
      85      90      95
Asn Thr Ala Val Leu Ala Leu Leu Leu Gln Gln Cys Leu Ser His Phe
      100      105      110
Gln Cys Glu Lys Val Ile Ala Ala Trp Gln
      115      120

```

<210> 10417

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 10417

```

Asn Ile Asp Glu Met Asn Met Lys Asn Val Asn Ile Leu Asp Thr Asp
  1      5      10      15
Ile Ala Ala Ile Asn Ala Leu Ser Gly Val Lys Leu Thr Asp Phe Leu
      20      25      30
Thr Ala Gly Tyr Gln Val Asn Trp Leu Gly Glu Arg Glu Val Ser Leu
      35      40      45
Val Gly Phe Pro Cys Leu Ala Ser Asn Lys Gln Pro Val Glu Val Gly
      50      55      60
Pro Gly Ile Phe Ile Asn Arg Val Tyr Ser Arg Asp Ser Gln Ser Leu
      65      70      75      80
Ser Gly Lys Leu Arg Tyr Asp Leu Ser Asn Gly Leu Ala Thr Ser Ala
      85      90      95
Phe Ser Phe Phe Ser Gln Ser Gly Trp Tyr Gly Gly Phe Arg Val Val
      100      105      110
Ser Phe Arg Asp Asn Gly Pro Ala Leu Ile Asn Ile Gly Ile Val
      115      120      125
His Glu Asn Val Leu Asn Ala Phe Cys Ala Asp Phe Pro Arg Ala Asn
      130      135      140
Val Ser Val Thr Arg Phe His Cys Gly Met Thr Leu Glu Gln Ile Arg
      145      150      155      160
Met Phe Ile Ser Asp Thr Ala Tyr Asp Met Pro Leu Tyr Asn Asn Glu
      165      170      175
Ser Asp Phe Arg Arg Leu Ala Ser
      180      185

```

<210> 10418

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10418

```

Asn Arg Gln Gln Ile Ser Thr Pro Ile Lys Lys Leu His Tyr Tyr Arg
  1      5      10      15
Ser Tyr Glu Ile Thr Ile Ile Ser Glu Tyr Tyr Asp Phe Phe Pro Tyr
      20      25      30
Arg Thr Asn Arg Ser Arg His Leu Ala Thr Tyr Phe Phe Tyr Val Arg
      35      40      45
Leu Gln Arg Ser Thr Leu Arg Glu Val Ser Lys Thr Gly Arg Ser Gln
      50      55      60
Pro Val Pro Pro Pro Arg Ser Pro Ala Phe Arg Arg Lys His
      65      70      75

```

<210> 10419

<211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 10419

```

Arg Ile Thr Leu Ser Ser Gly Gly Lys Thr Thr Asp Asp Asp Val Arg
1      5      10      15
Ala Ser Gly Leu Tyr Trp Pro Arg Met Cys Ala Asp Ile Tyr Gly Arg
      20      25      30
Ser Gly Gly Arg Leu Ser His Val Gln Lys Ser Phe Tyr Ile Leu Ala
      35      40      45
Val Asn Phe Asn Asn Ser Ala Phe Asn Ile Cys Gln Val Cys Thr Ile
      50      55      60
Glu Met Lys Ser Ile Ile Ser Phe His Leu Gly Ile Tyr Ser Ala Ala
65      70      75      80

```

<210> 10420
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10420

```

Thr Ser Thr Ser Thr Ser Thr Phe Ser Asn Lys Asp Glu Ile Phe Val
1      5      10      15
Arg Ile Ser Pro Val Leu Leu Phe Leu Ser Leu Thr Ile Glu Glu Val
      20      25      30
Leu Thr Ser Asn Lys Phe Asp Ile Thr Tyr Val Phe Leu Thr Ser Trp
      35      40      45
Phe Arg Ser Ala Ile Leu Phe Ile Gln Arg Arg Arg Ser
      50      55      60

```

<210> 10421
 <211> 210
 <212> PRT
 <213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (161)

<400> 10421

```

Thr Thr Val Arg Ser Asn Met Glu Ala Ile Asn Asn Tyr Asn Ser Gly
1      5      10      15
Leu Asn Arg His Gln Leu Gly Gly Phe Ile Pro Val Tyr Asp Gln Leu
      20      25      30
Ala Gly Thr His Tyr Phe Leu Ile Asp Gly Asn Arg Leu Gly Phe Met
      35      40      45
Phe Ile Cys Asn Pro Ser Pro Gly Val Phe Asp Asn Gln Gln Asp Val
      50      55      60
Leu Ala Glu Met Phe Lys Met Asp Phe Pro Thr Asp Thr Val Cys Gln
65      70      75      80
Ile Ser Leu Thr Ala Leu Pro Asp Leu Thr Leu Gln Leu Ser Ala Trp
      85      90      95
Ser Ala Val Arg Gly Gly Arg Met Thr Gly Asn Asp Lys Leu Lys Ala
      100      105      110
Asp Leu Leu Asn Gly Tyr Gln Leu Asp Tyr Tyr Asp Arg Ser Met His
      115      120      125
Lys Pro Leu Lys Pro Asp His Asp Thr Leu Met Leu Arg Asp Phe Gln
130      135      140

```

Val Trp Ile Ser Leu Ser Ile Pro Leu Gln Phe Ala Phe Pro Thr Glu
 145 150 155 160
 Xaa Glu His Ser Arg Ile Asp Ser Leu Tyr Ser Glu Leu Val Ser Lys
 165 170 175
 Leu Ile Thr Ile Gly Leu His Pro Phe Lys Val Asp Ala Glu Asn Trp
 180 185 190
 Leu Tyr Cys Ile Asp Lys Val Val Asn Pro Ala Lys Glu Leu Pro Val
 195 200 205
 Gly
 210

<210> 10422

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10422

Thr Phe Pro Leu Gly Phe Ile Met Lys Thr Pro Asn Glu Ala Glu Ser
 1 5 10 15
 Glu Leu Leu Gln Thr Leu Ala Gln Val Arg Ser Val Asn Lys Lys Arg
 20 25 30
 His His Asp Glu Ala Glu Glu Pro Asp Lys Pro Ser Val Val Lys Arg
 35 40 45
 Gln Arg Val Thr Gln Gly Leu Thr Arg Ile Ser Thr Leu Asp Arg Gln
 50 55 60
 Ala Val Leu His Ala Ala Ile Arg Asp Ile Leu Gly Lys Ile Thr
 65 70 75 80
 Gln Gly Glu Ala Leu Lys Arg Leu Arg Val Glu Val Leu Gly Leu Lys
 85 90 95
 Gln Asp Glu Tyr Ala Lys Leu Val Ser Val Ser Arg Lys Thr Leu Ser
 100 105 110
 Asp Val Glu Asn Asn Arg Gly Asn Tyr Ser Ala Asp Val Ile Asn Lys
 115 120 125
 Ile Phe Lys Pro Phe Gly Leu Gln Thr Gly Leu Val Pro Val Ser Lys
 130 135 140
 Ser Leu Ile Ala Ser Leu Phe Ser
 145 150

<210> 10423

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10423

Tyr Ser His Asn Ser Asn Gln Pro Gly Trp Phe Asn Pro Ser Val Pro
 1 5 10 15
 Val His Gln Val Ser Phe Phe Ser Val Arg Met Ser Ile Asp Gly Ala
 20 25 30
 Pro Gln Lys Glu Val Gly Val Thr Val Ile Leu Pro Glu Ile Pro Leu
 35 40 45
 Cys Ser Gly Cys Val Leu Ser Phe Arg Gln Asp Thr Trp Leu
 50 55 60

<210> 10424

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 10424

Val Met Thr Ile Glu Ser Phe Phe Ile Gly Thr Arg Met Ser Gly Lys
 1 5 10 15

Arg Tyr Gly Pro Gln Ser Lys Asp Met Gln Val Ser Glu Phe Ile Ala
 20 25 30
 Leu Ile Ser Pro Lys Asn Glu Pro Glu Lys Phe Val Leu Pro Asp Phe
 35 40 45
 Ser Gly Leu Ala Arg Arg Ile Asp Ala Gln Ile Arg Asn Gln Phe Ile
 50 55 60
 Gln Gln Lys Glu Asp Asp Tyr Tyr Arg Arg Tyr Arg Gln Leu Ser Asp
 65 70 75 80
 Arg Trp Tyr Gln Ala Gly Ser Ile Ser Asp Arg Asn Asn Arg Ser Gln
 85 90 95
 Arg Phe Glu Lys Val Met Asp Glu Ser Leu Glu Phe Leu Val Tyr Ser
 100 105 110
 His Asp Val Met Pro Asn Ile Asn Pro Tyr Asn Leu Lys Tyr Asp Asp
 115 120 125
 Arg Val Gln Val Ser Thr Lys Gly Lys Met Tyr Cys Val Ala Leu Leu
 130 135 140
 Phe His Ile Ile Ala Arg Ala Ala Tyr Glu Pro Val Ser Val Gly Ala
 145 150 155 160
 Asp Pro Thr Leu Gln Arg His Cys Lys Trp Leu Lys Asp Trp Ile Asn
 165 170 175
 Lys Thr Leu Gly Asp His Phe Leu Glu Gly Met Met Ile Thr Phe Ala
 180 185 190
 Leu Cys Tyr Pro Asp His Phe Pro Ala Leu Gln Arg Leu Ser Gly Glu
 195 200 205
 Leu Glu Thr Arg Asp Val Asp Thr Phe Leu Ala Asp Glu Val Arg Lys
 210 215 220
 Ala Arg Gln His Thr Glu Gln Val Asn Tyr His Asn Gly Arg Tyr
 225 230 235
 Arg Leu Lys Phe Glu Tyr Thr His Phe His Gln Glu Gln Phe Asp Phe
 245 250 255
 Leu Ala Glu Met Arg Asp Leu His Tyr Arg Ile Asp Arg Ile Glu Gln
 260 265 270
 Leu Leu Gln Lys Leu Ile Asp Asn Pro Val Val Asp Phe Ser Glu Ala
 275 280 285
 Ala Val Ala Gly Gln Trp Ile Asp Glu Gln Val Gln Leu Leu Glu Thr
 290 295 300
 Asn Glu Thr Lys Leu Ile Leu Pro
 305 310

<210> 10425

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10425

Ser Pro Leu Ser Arg Thr Pro Ala Pro Cys Gly Ala Glu Glu Cys Leu
 1 5 10 15
 Thr Leu Ile Glu Ser Ile Asn Val Asn Lys Arg Thr Leu Ser Ser Ser
 20 25 30
 Ile Val Ser Asn Arg Asn Arg Arg Gln Trp Leu Asp Ala Tyr Thr Gln
 35 40 45
 Ser Pro Glu Ile His Met Pro Phe Ser Asp Phe Leu Lys Ile Ile Gln
 50 55 60
 Lys Phe Gln Cys Ala Thr Val Leu Glu Lys Val Leu Met Leu Leu Phe
 65 70 75 80
 Val Ile Leu Ile Ile Val Gln Gln Val Ile Asp Thr Phe Cys Ser Arg
 85 90 95

<210> 10426

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 10426

```

Ser Arg Gly Ile Met Ala Arg Thr Tyr Val Lys Gln Thr Val Gln Asn
1      5      10      15
Asn Glu Gln Leu Phe Asp Ser Leu Val Ile Asn Ala Ile Asp Phe Leu
20      25      30
Glu Ser Ser Ile Asp Asp Leu Asn Ile Arg Pro Lys Asn Ser Ile Val
35      40      45
Asp Phe Tyr Thr Ala Ile Glu Leu Phe Leu Lys Ala Arg Leu Met Leu
50      55      60
Glu His Trp Thr Leu Ile Leu Asp Asp Pro Ser Lys Ala Asn Lys Gln
65      70      75      80
Lys Phe Ser Val Gly Asp Phe Asn Ser Val Tyr Phe Asn Asp Ala Val
85      90      95
Gln Arg Leu Lys Thr Ile Ile Gly Ile Lys Leu Asp Asp Asn Ile Leu
100     105     110
Asp Glu Phe Arg Thr Leu Gly Ala His Arg Asn Gln Ile Val His Phe
115     120     125
Ala His Thr Gly Tyr Ser Ser Thr Gln Ala Asn Lys Ala Gly Val Val
130     135     140
Ala Gln Gln Trp Ser Ser Trp His His Leu Tyr Asn Leu Leu Thr Val
145     150     155     160
Glu Trp Lys Asp Glu Phe Ile Lys Phe Lys Glu Glu Phe Glu Arg Val
165     170     175
His Lys Arg Met Leu Gln Gln Lys Asp Phe Leu Ser Thr Arg Phe Asn
180     185     190
Glu Leu Ser Lys Gly Asp
195

```

<210> 10427

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 10427

```

Val Lys Thr Asn Arg Phe Ile Val Ser Thr Val Asp Cys Ile Asn Glu
1      5      10      15
Phe Ala Ser Asp Val Pro Gln Ser Val Ser Leu Arg Ile Asp Thr Met
20      25      30
Leu Glu Gln Arg Ile Arg Lys Leu Ala Ala Tyr Val Lys Glu Asn Asp
35      40      45
Leu His Leu Thr Glu Phe Tyr Phe Tyr Asp Ala Asn Trp Ser Phe Cys
50      55      60
Gly Glu Asp Glu Ile Gln Glu Ile Lys Asp Met Asp Glu Tyr Lys His
65      70      75      80
Ser Asp Ser Ile Lys Gln Glu Ala Met Leu Arg Glu Val Met Pro Ser
85      90      95
Ala Arg Thr Glu Cys Pro Val Ile Arg Val Met Lys Asp Ser Phe Gln
100     105     110
Leu Ser Ala Leu Pro Arg His Cys Gly Asp Asp Met Thr Leu Asn Thr
115     120     125
Pro Phe Ile Pro Leu Ser Glu Leu Lys Thr Asn Asn Thr Ala Phe Ile
130     135     140
Thr Pro Pro Thr Tyr Asn
145     150

```

<210> 10428

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 10428

```

Cys Ser Ile Tyr Arg Gly Ser Gly Lys Tyr Met Phe Ile Glu Lys Ser
1          5          10          15
Asp Ser Phe Leu Glu Leu Ser Ser Glu Val Ile Phe Pro Glu Ala Ala
20          25          30
Asn Ala Ala Ile Leu Lys His Asp Lys Trp Ala Asp Val Trp Glu Thr
35          40          45
Leu Thr Thr Asp Ala Asp Leu Asn Tyr Thr Asp Glu Lys Glu Thr Val
50          55          60
Ser Leu Ser Ser Leu Val Met Ser Ala Thr Ser Ala Ile Tyr Gln Ala
65          70          75          80
Ile Thr Asp Gly Trp Thr Met Cys Val Gly Tyr Ser Gly Gly Lys Asp
85          90          95
Ser His Ser Leu Leu His Leu Phe Leu Met Ala Leu Ile Arg Ala Val
100          105          110
Arg Asn Gly Thr Asn Ile Ser Glu His His Phe Ile Gln Met Ser Asp
115          120          125
Thr Asn Tyr Tyr His Thr Val Thr Ala
130          135

```

<210> 10429

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10429

```

Asp Ile Cys Gly Asp Leu Ile Ser Thr Leu Trp Thr Phe Ile Asp Ile
1          5          10          15
Leu Thr Glu Lys Phe Glu Trp Tyr Phe Thr Leu Trp Ala Lys Gln Thr
20          25          30
Ile Gly Glu Leu Leu Tyr Arg Ile Ala Leu Ala Ile Pro Lys Gln Glu
35          40          45
Ile His Lys Ser Ser Pro Pro Phe Met Ser Ile Ile Asn Phe Asn Arg
50          55          60
Leu Ser Thr Ala Pro Phe Asp Arg Thr
65          70

```

<210> 10430

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10430

```

Ala Lys Pro Leu Ala Arg Ser Leu Ser Val Arg Phe Ala Lys Thr Ser
1          5          10          15
Tyr Gln Tyr Leu Met Ala Val Gly Asn Leu Arg Asp Ala Tyr Ala Ile
20          25          30
Arg Pro Asn Arg Leu Glu Asn His Leu Ile Ala Glu Ile Ser His Pro
35          40          45
Leu Phe Ala Asp Asp Val Leu Leu Phe Phe Leu Phe Val Phe Ala Ile
50          55          60
Leu His His Leu Ile Gln Val Leu Ile Cys Glu
65          70          75

```

<210> 10431

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 10431

His Asp Trp Phe Ile Gly Thr Ile Tyr Ser Pro Tyr Val Met Asn Ile
 1 5 10 15
 Phe Leu Pro Gln His Leu Asp Ile Ala Asn Pro Tyr Val Lys Ile Gln
 20 25 30
 Lys Lys Ser Glu Gln Asp Arg Glu Met Glu Ser Lys Asn Ser Ser Phe
 35 40 45
 Tyr Phe Asp Arg Val Asp Phe Leu Ser Lys Ser Ile Ser Tyr Ser Thr
 50 55 60
 Leu Met Ile Ser Cys Leu Ser Ile Val Gly Ile Phe Leu Asn Ser His
 65 70 75 80
 Trp Leu Tyr Gly Ile Ala Thr Leu Thr Phe Ile Ile Gln Leu Leu Thr
 85 90 95
 Trp Phe Ala Met His Phe Lys Thr Ser Tyr Ala Ala Lys Ala Ile Glu
 100 105 110
 Thr Lys Arg Leu Glu Met Leu Arg Gly Ile Ile Gly Glu Glu Asn Phe
 115 120 125
 Tyr Arg Glu Arg Leu Tyr Ile Asp Gly Asn Ala Glu Asn Lys Asn Gly
 130 135 140
 Phe Arg Ala Glu Arg Leu Ile Thr Leu Ile Gln Glu Asn Ala Tyr Trp
 145 150 155 160
 Asn Ser Ile Leu Tyr Ile Lys Ala Phe Gln Gln Lys Leu Phe Tyr Leu
 165 170 175
 Leu Leu Thr Ile Leu Leu Leu Ile Thr Ile Ile Ile Ile Met Tyr Thr
 180 185 190
 Thr Leu Thr Asp Asn Leu Asp Phe Gln Tyr Ser Arg Ala Ile Phe Gly
 195 200 205
 Ile Leu Val Ile Asn Asn Phe Tyr Asn Leu Phe Ser Glu Val Ser Gly
 210 215 220
 Phe Leu Asn Ala His Asn Glu Met Lys Lys Ile Asp Ser Phe Ile Glu
 225 230 235 240
 Ile Asn Asn Arg Lys Ala Pro Glu Tyr Leu Ser Tyr Ile Tyr Ser Lys
 245 250 255
 Tyr Glu His Glu Ile Phe Ile Ala Pro Ser Ile Asn Asn Ala Ile Tyr
 260 265 270
 Leu Lys His Ser Met Gln Ile Lys Gln Thr Trp Ala Gln Arg Leu Tyr
 275 280 285
 Asn Lys Asn Asn Phe Gln Ser Lys Gln Leu Ile Asp Ala Ile Thr Glu
 290 295 300
 Phe Thr Leu Val Arg Pro
 305 310

<210> 10432

<211> 264

<212> PRT

<213> *Enterobacter cloacae*

<400> 10432

Pro Pro Leu Arg Ala Pro Leu Pro Leu Val Ala Gly Val Glu Asn Gln
 1 5 10 15
 Arg Leu Ile Ala His Pro Ser Gly Ser Gly Leu Phe Ala Asp Val Leu
 20 25 30
 Thr Leu Lys Thr His Ser Ser Gly Asp Glu Val Ile Ser Arg Tyr Thr
 35 40 45
 Val Gln Lys Asp Tyr Asn Pro Gln Glu Gly Gly Gly Asn Tyr Phe Leu
 50 55 60
 Ile Lys Ala Ala Cys Ala Ala Arg Asp Tyr Pro Ala Leu Ala Asn Asp
 65 70 75 80
 Ile Tyr Phe Thr Val Val Asn Trp Asp Leu Leu His Arg Ser Asn Leu
 85 90 95

Val Leu Ala Glu Leu Leu Lys Thr Val Asn Leu Ser Ala Lys Asn Ser
 100 105 110
 Ser Gly Phe Lys Val Pro Glu Ser Trp Gln Val Asn Pro Leu Thr Glu
 115 120 125
 Thr Arg Leu Val Val Glu His Ser Phe Asp Gly Ile Asn Tyr Gly Val
 130 135 140
 Ile Asn Leu Cys Phe Phe Ser Gln Glu Met Leu Phe Thr Ala Gln Asp
 145 150 155 160
 Val Phe Ser Val Ser Ile Lys Arg Phe His Asp Arg Glu Pro Ala Val
 165 170 175
 Thr Leu Lys Thr Glu Ala Leu Ala Thr Ile Pro Asn Glu Phe Asn Pro
 180 185 190
 Ser Leu Gly Lys Thr Leu Trp Thr Cys Arg Gly Glu Met Phe Ser Ala
 195 200 205
 Glu Glu Glu Met Arg Ala Val Tyr Gln Cys Tyr Ile Phe Ser Val Gly
 210 215 220
 Lys Val Trp Cys Tyr Ala Glu Leu Ile Gly Arg His Arg Asn Tyr His
 225 230 235 240
 Asp Tyr His Phe Glu Ala Asn Lys Arg Cys Leu Glu Ile Ile Leu Ser
 245 250 255
 Thr Phe His Ile Glu Asn Val
 260

<210> 10433

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 10433

Leu Thr Glu Ser Thr Ala Met Asn Glu Met Thr Met Phe Gly Tyr Val
 1 5 10 15
 Asp Arg Ala Leu Thr Leu Ala Gln Lys Arg Tyr Ala Asp Val Lys Asn
 20 25 30
 Arg Asp Pro Gln Ser Pro Leu Leu Gln Met Tyr Asp Ser Ile Val Gln
 35 40 45
 Gln Leu Leu Phe Leu Arg Asp Leu Ile Glu Gly Lys Glu Lys Asp Arg
 50 55 60
 Ala Lys Leu Trp Asp Met Thr Phe Gly Met Tyr Ala Gly Lys Glu Phe
 65 70 75 80
 Asp His Ser Asp Glu Leu Phe Phe Glu Arg Leu Ser Asp Ala Trp Phe
 85 90 95
 Ile Val Asp Gln Ile Arg Arg Gly Leu Lys Val Arg Leu Pro His Glu
 100 105 110
 Val Asp Thr Asn Tyr Asn Lys Lys Gln Asn Leu Met Lys Lys Phe
 115 120 125
 Pro Asp Glu Phe
 130

<210> 10434

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 10434

Phe Ser Glu Val Ser Tyr Ser Thr His Gly Ile Arg Tyr Gln Glu His
 1 5 10 15
 Ile Asn Ala Ser Lys Asn Asp Ala Cys Asn Asn Ser Lys Ser Tyr Lys
 20 25 30
 Arg Pro Glu Ile Ser Gln Val Ile Gly Phe Met Ser Asp Thr Ala Tyr
 35 40 45
 Ser Ile Tyr Leu Lys Lys Trp Gln Ser Lys Tyr Tyr His Gln Ile Gln

	50					55				60					
Ile	Lys	Lys	Lys	Thr	Asn	Asn	Asn	His	Asn	Gln	Val	Val	His	Asn	Ile
65					70					75					80
Thr	Ser	Leu													

<210> 10435

<211> 135

<212> PRT

<213> Enterobacter cloacae

<400> 10435

Cys	Val	Lys	Gln	Leu	Lys	Thr	Leu	Asn	Gly	Arg	Thr	Gly	Glu	Val	Thr
1				5					10				15		
Lys	Met	Thr	Thr	Asn	Thr	Thr	Thr	Thr	Thr	Tyr	Arg	Ser	Glu	Glu	Ile
			20					25					30		
Val	Pro	Phe	Arg	Arg	Pro	Lys	Gly	Asp	Leu	Asp	Ser	Arg	Tyr	Met	Pro
		35					40					45			
Gln	Val	Tyr	Ala	Met	Val	Arg	Asn	Trp	Ala	Ser	Asn	Pro	Ala	Gln	Tyr
	50					55					60				
Gly	Glu	Gly	Val	Leu	Ala	Ser	Tyr	Arg	Gln	Pro	Ala	Val	Asn	Leu	Ala
65				70					75					80	
Tyr	Gln	Val	Lys	Gly	Thr	Arg	Val	Val	Leu	Ile	Leu	Val	Pro	Val	Glu
			85					90					95		
Cys	Glu	Pro	Pro	Gly	Val	Ile	Met	Thr	Glu	Thr	Val	Leu	Trp	Pro	Ser
		100					105						110		
Leu	Ser	Leu	Val	Glu	Val	Leu	Gln	Thr	Leu	Gln	Glu	Ala	Trp	Gln	Asn
		115					120					125			
Ile	Pro	Ala	Leu	Asn	Pro										
	130					135									

<210> 10436

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10436

Ser	His	Thr	Lys	Glu	Gly	Ile	Met	Asn	Thr	Phe	Leu	Tyr	Val	Leu	Leu
1			5					10					15		
Ala	Trp	Ile	Val	Val	Leu	Phe	Ile	Ala	Asn	Lys	Leu	Leu	Ala	Arg	Arg
		20					25						30		
Lys	Pro	Asn	Thr	Val	Lys	Ile	Leu	Val	Gln	Arg	Asn	Gly	Lys	Ala	Ala
	35						40					45			
Glu	Val	Asp	Ala	Val	Val	Val	Gln	Gly	Ser	Lys	Arg	Ala	Asn	Asn	Ser
	50				55					60					
Ser	Val	Ala	Asp	Ser	Asp	Ala	Val	Asp	Ser	Tyr	Phe	Glu	Met	Asn	Pro
65				70				75						80	
Tyr	Ser	Arg	Glu	Asn	Gln	Ala	Asn	Gly	Trp	Ala	Met	Leu	Ala	Arg	Asp
			85				90						95		
Asp	Asp	Gln	Leu	Lys											
			100												

<210> 10437

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 10437

Pro	Phe	Arg	Leu	Asp	Ala	Ile	Lys	Leu	Thr	Thr	Ser	Val	Tyr	Asp	Asp
1			5					10					15		
Asp	Ile	Asp	Thr	Phe	Gln	Phe	Ser	Ser	Leu	Lys	Ser	Arg	Leu	Asn	Ser

```

      20      25      30
Pro Asp Val Pro Leu Val Leu Leu Lys Arg Val Leu Gln Leu Glu Gly
      35      40      45
Ser Gly Leu Ser Pro Phe Pro Val Ala Phe Leu Gln Ser Thr Val
      50      55      60
Glu Leu Ala Tyr Val Val Phe Leu Leu Tyr Asp Val Tyr Thr Met Trp
65      70      75      80
Gly Tyr Glu Asn Val Ile Asn Leu Arg Ser Ala Met Ser Arg Gln Leu
      85      90      95
Lys Gly Glu Ile Thr Lys
      100

```

<210> 10438

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10438

```

Thr Gly Trp Ile Cys Gly Val Cys Cys Ala Val Glu Val Pro Ile Leu
1      5      10      15
Gly Gly Gly Val Ile Asn Ile Pro Leu Asp Val Leu Pro Glu Pro Leu
      20      25      30
Val Pro Leu Thr Glu Leu Thr Gly Ala Gly Ala Leu Phe Glu Leu Val
      35      40      45
Gln Pro Ala Ser Gln Ser Glu Thr Ser Asp Asn Ala Ala Thr Arg Leu
      50      55      60
His Arg Arg Gly Arg Gln Glu Pro Gln
65      70

```

<210> 10439

<211> 187

<212> PRT

<213> Enterobacter cloacae

<400> 10439

```

Leu Met Arg Phe Leu Asn Pro Gln Trp Arg Lys Pro Cys Thr Leu Leu
1      5      10      15
Val Gly Lys Val Arg Leu Leu Lys Arg Leu Ala Leu Arg Lys Glu Leu
      20      25      30
Ser Gly Ser Gly Ser Gly Gly Ser Arg Lys Phe Leu Arg Ser Met Gln
      35      40      45
Trp Gln Ser Gln Thr Gln Leu Met Glu Leu Leu Ser Leu Met Asn Cys
      50      55      60
Val Leu Ile Cys Arg Leu Phe Ser Leu Thr Arg Ala Met Arg Cys Asp
65      70      75      80
Met Ser Arg His Ala Gly Gly Ile Met Asn His Ser Asp Phe Val Arg
      85      90      95
Lys Tyr Ser Phe Asp Asn Pro Leu Gln Arg Leu Val Met Leu Arg Ile
      100      105      110
Leu Met Gly Gly Ser Met Asp Gly Glu Gly Glu Arg Val Ile Asp His
      115      120      125
Gln Val Leu Tyr Glu Phe Cys Cys Cys Ser Lys Gln Ala Met Phe Lys
      130      135      140
Glu Ile Lys Ala Leu Glu Arg Ala Gly Phe Leu Lys Val Arg Lys Ile
      145      150      155      160
Gly Ala Leu Asp Thr Gly Leu Ala Val Arg Leu Glu Pro Ala Arg Gly
      165      170      175
Tyr Thr Ile Thr Pro Val Gln Glu Phe Val
      180      185

```

<210> 10440

<211> 70
 <212> PRT
 <213> Enterobacter cloacae

<400> 10440

Ser Pro Asn Cys Leu Phe Ser Ile Asn Lys Gly Asn Leu Arg Asn Thr
 1 5 10 15
 Leu Arg Ile Ser Ala Ser Ile Ile Asn Lys Phe Asn Tyr His Ser Tyr
 20 25 30
 Cys Glu Trp Ile Arg Ser Lys Ser Val Glu Pro Thr Asn Leu Pro Ala
 35 40 45
 Lys Arg Leu Asn Glu Thr Ser Gly Glu Asp Lys Pro Gln Ile Phe Pro
 50 55 60
 Asp Val Phe Thr His
 65 70

<210> 10441

<211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 10441

Asn Ser Gly Ser Gly Ser Ser Asn Glu Asp Leu Cys Pro Val Ile Ile
 1 5 10 15
 Val Thr Lys Tyr Arg Ile Lys Pro Ser Leu Ser Leu Ala Asn Asp Glu
 20 25 30
 Asn Leu Phe Tyr His Ser Lys Asn Gln Gly Gly Leu Ile Arg Pro Glu
 35 40 45
 Arg Phe Gln Val Thr Leu Ser Ser Gly Cys Thr Asn His Pro Pro Thr
 50 55 60
 Phe Thr
 65

<210> 10442

<211> 118
 <212> PRT
 <213> Enterobacter cloacae

<400> 10442

His Thr Pro Arg Asn Lys Met Asn Ile Glu Val Leu Arg Tyr Leu Glu
 1 5 10 15
 Ser Asp Gly Arg Glu His Val Glu Glu Lys Val Gln Pro Thr Lys Tyr
 20 25 30
 Asp Ser Glu Ala Thr Phe Ala Val Ile Lys Ile Leu Ile Ala Asn Asp
 35 40 45
 Gly Asn Ala Asp Ala Leu Ser Asp Lys Gln Lys Phe His Leu Lys Thr
 50 55 60
 Phe Val Glu Pro Leu Ile Asn Arg Val Pro Cys Ser Gly Ile Tyr Gly
 65 70 75 80
 Glu Asp Thr Cys Thr Gly Asp Gly Phe Val Asp Asp Glu Ser Leu Leu
 85 90 95
 Met Ser Tyr Gln Glu Asp Asp Phe Met Cys Gln His Cys Arg Tyr Asp
 100 105 110
 Ala Glu Asn Arg His
 115

<210> 10443

<211> 133
 <212> PRT
 <213> Enterobacter cloacae

<400> 10443

Lys Gly Gly Gly Met Ser Arg Lys Ser Thr Tyr Lys Thr Lys Ala Glu
 1 5 10 15
 Asn Glu His Leu Ala Arg Val Ala Ala Leu Gly Cys Ile Val Cys Lys
 20 25 30
 Asn Ile Gly His Glu Asp Thr Pro Ala Glu Ile His His Cys Ser Lys
 35 40 45
 Gly Thr Gly Leu Ala Val Arg Ala Asp Asn Phe His Val Ile Pro Leu
 50 55 60
 Cys Ala Ile His His Arg Gln Gly Gly His Gly Val Ala Ile His Ala
 65 70 75 80
 Gly Arg Asn Thr Trp Val Gln Lys Tyr Gly Thr Glu Ala Glu Leu Leu
 85 90 95
 Ala Gln Val Asn Ala Glu Leu Gly Ile Ala Ala Trp His Ser Ile Gln
 100 105 110
 Ser Ile Ser Ser His Tyr Asn Leu Asn Gly Ala Ala Ser Leu Leu Lys
 115 120 125
 Glu Glu Asn Lys
 130

<210> 10444

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10444

Ala Asn Leu Asn Tyr Ser Asp Val Ser Asn Asp Asn Thr Leu Cys Lys
 1 5 10 15
 Tyr Thr Val Trp Trp Phe Leu Thr Gly Asp Ile Met His Ile Ser Asp
 20 25 30
 Asp Val Ile Pro Gly Ala Ala Gly His Thr Gly Pro Val Leu Val Tyr
 35 40 45
 Leu Glu Cys Gly Arg Ile Ser Gly Gly Phe Val Leu Gln Pro Asp Glu
 50 55 60
 Phe Val Thr Ser Leu Ala Ala Leu Asp Glu Ala Arg Gln His Ala Gly
 65 70 75 80
 Leu Thr Pro Cys Ser Phe Ser His Pro Val Ser Asp Leu
 85 90

<210> 10445

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 10445

Thr Val Asn Arg Ser Phe Cys Tyr Trp Tyr Leu Ser Glu Asn Asn Cys
 1 5 10 15
 Lys Glu Lys Glu Met Leu Gly Trp Tyr Cys Lys Lys Arg Ser Ala Asn
 20 25 30
 Arg Thr Arg Val Arg Arg Gly Gly Asp Val Asn Ala Ile Lys Trp Gly
 35 40 45
 Asp Ala Pro Pro Leu Leu Tyr Cys Phe Asn Ser Ser Leu Ile Phe Cys
 50 55 60
 Leu Ile Met Ile Arg Gln Cys Asn Lys Lys Lys Thr Val Thr Met Ala
 65 70 75 80
 Ser Gln Thr Gln Asn Lys Gln Ala
 85

<210> 10446

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 10446

Leu Pro Pro Pro Asn Gly Ala Leu Met Pro Pro Ser His Val Val Glu
 1 5 10 15
 Asp Lys Arg Met Lys Asn Ile Arg Thr Val Lys Lys Val Phe Ser Glu
 20 25 30
 Met Leu Val Arg Phe Glu Asn Phe Gln Glu Ile Cys Arg Leu Tyr Val
 35 40 45
 Asp Arg Lys Met Glu Leu Cys Phe Thr Thr Asp Ser Ala Asp Arg Ser
 50 55 60
 Lys Leu Trp Glu Ile Gln Ser Arg Glu Asn Cys Ser Tyr Gly Glu Ala
 65 70 75 80
 Ile Glu Ile Leu Tyr Ala Gln Glu Val Ala Gly Leu Ala Ala
 85 90 95

<210> 10447

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10447

Arg His Ile Pro Ala Cys Arg Ser Ala Asp Thr Ser Ala Arg Ala Phe
 1 5 10 15
 Phe Gly His His Ile Thr Gly Gln Glu Ile Leu Ser Gly Arg Gly Val
 20 25 30
 Thr Glu Gln Gln Leu Gly His Cys His Pro Leu Ala Asp Leu Thr Pro
 35 40 45
 Leu Ile Ala Lys Leu Ala Phe Ser Pro Asp Ser Val Leu Pro Ser Trp
 50 55 60
 Ala Gly Leu Leu Thr Leu Ala Pro Leu Ile Arg Asn Ala Pro Ala Asp
 65 70 75 80
 Lys Asp

<210> 10448

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 10448

Arg Glu Tyr Tyr Arg Tyr Gly Asp Ala Arg Arg Phe Thr Ser Glu Ser
 1 5 10 15
 Ile Leu Met Asn Phe Gln Thr Asn Glu Val Phe Asn Lys Phe Ala Ala
 20 25 30
 Val Ile Lys Ser Arg Ile Val Asn Glu Pro Ser Ser Cys Tyr Leu Leu
 35 40 45
 His Asp Asn Glu Ile Asp Ile Thr Ile Leu Lys His Gly Ile Leu Glu
 50 55 60
 Asn Asp Arg Asn Leu Leu Tyr Val Val Arg Pro Ser Gly Thr Cys Leu
 65 70 75 80
 Leu Arg Cys Asp Lys Tyr Phe Tyr Pro Lys Tyr Tyr Leu Arg Cys Arg
 85 90 95
 Gly Asp Tyr Lys Ser Phe Ile Tyr Val His Leu Asp Leu His Ser Gly
 100 105 110
 Glu Ala Lys Glu Ile Thr Trp Glu Gln Ala Asp Asp Met Leu Ser Ser
 115 120 125
 Pro Gly Lys Pro Pro Leu Lys Gly Asn Leu Gly Arg Phe Glu Tyr Ile
 130 135 140
 Lys Val Val Val Glu Asp Leu Arg Ile Arg Gly Tyr Ala Asp Tyr Leu
 145 150 155 160

Pro Ala Tyr Asn Leu Asp Asp Leu Arg Arg Phe Ala Leu Gln Asp Asp
 165 170 175
 Arg Pro Ser Leu Val Arg Tyr Ile Asp Asn Val Met Ala Thr Val
 180 185 190

<210> 10449

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10449

Trp Pro Thr Cys Ile Arg Glu Ala Ser Ile Thr Thr Gly Gly Cys Met
 1 5 10 15
 Lys Leu Ala Thr Asp Leu Val Lys Ala Ile Leu Ile Arg Asn Gly Val
 20 25 30
 Glu Pro Val Asn Ile Ser Glu Ser Ser Lys Leu Ser Leu Lys Gln Pro
 35 40 45
 Leu Thr Glu Leu Lys Phe Ser Leu Tyr Leu Arg Thr Glu His Leu Ser
 50 55 60
 His Phe Leu Pro Gly Tyr Val Tyr Ser Ile Lys Glu Cys Pro Leu Ser
 65 70 75 80
 Tyr Asp Ile Gly Ile Glu Ile Gln Lys Ile Phe Glu Ser Leu His Leu
 85 90 95
 Leu Asn Glu Glu Phe Glu Ser Leu Gly Phe Val Ser Val Trp Ile Glu
 100 105 110
 Met His Gln Ser Ile Phe Glu Gln Ser Arg Phe Lys Lys Ser Asn Phe
 115 120 125
 Thr Phe Arg Glu Glu Glu Val Glu Leu Ala Lys Gly Leu Val Cys Ser
 130 135 140
 His Asn Ser Gln Ile Ser Asn Ala Ala Tyr Phe Trp Leu Gln His Phe
 145 150 155 160
 Glu Glu Phe Met Ile Tyr Val Arg Asn Lys Leu Ile Asp Leu Phe Arg
 165 170 175
 Glu Ala Tyr Asp Leu Ile Leu Gly Met Gln Gln Val Phe Phe Ile Arg
 180 185 190
 Glu Lys Glu Glu Leu Leu Lys Thr Ile Ser Tyr Gly Asp Asp Leu Tyr
 195 200 205
 Glu Val Lys Leu Met Ala Ala Glu Leu Tyr Ser Ile Glu Gln Asn Leu
 210 215 220
 Lys Cys Ser Glu Ser Ile Ser Thr Lys Ser Gln Ala Ser Ala Tyr Ile
 225 230 235 240
 Asn Arg Ile Arg Glu Phe Val Arg Ser Gly Trp Arg Gln Gly Tyr Ile
 245 250 255
 Val Cys His His Lys Arg Ser Asn Gln Ile Ser Ser Leu Ser Leu Pro
 260 265 270
 Met Tyr Leu Lys Asp Thr Ser Gly Arg Ser Ala Arg Lys Arg Val Lys
 275 280 285
 Arg Leu Ile Ser Ser Thr Val Cys Gly Arg Asn Lys Asp Leu Gly Leu
 290 295 300
 Thr Asp Phe
 305

<210> 10450

<211> 451

<212> PRT

<213> Enterobacter cloacae

<400> 10450

Ser Ile Asn Val Glu Gly Pro Arg Ala Leu Phe Leu Lys Phe Cys Val
 1 5 10 15
 Val Gly Phe Ser Leu Ser Ser Ala Pro Gln Lys Ala Leu Arg Asn Ser

```
<210> 10451
<211> 115
<212> PRT
<213> Enterobacter cloacae
```

<400> 10451

```

Ser Leu Phe Leu Leu Arg Glu Asp His Met Lys Ile Ile Glu Lys Ile
1      5      10
Ile Asn Ala Phe Leu Val Val Gln His Lys Lys Ile Gln Val Lys Asn
20      25      30
Ile Thr Phe Leu Asp Asn Gly Gln Gly Met Phe Ser Gly Met Ser Phe
35      40      45
Asp Ala Asp Val Ser Leu Glu Phe Met Tyr Glu Ser Ala Lys Ala Tyr
50      55      60
Ser Ser Cys Phe Cys Asp Ile Pro Phe Pro Gly Phe Glu Asp Ala Asn
65      70      75      80
Leu Glu Glu Ile Thr Lys Phe Gln Leu Asp Ala Leu Lys Gln Arg Lys
85      90      95
Asn His Leu Val Pro Leu Leu Ser Ser Ser Gly Arg Ala Arg Ser Ile
100      105      110
Lys Thr Pro
115

```

<210> 10452

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 10452

```

Asp Lys Cys Ser Val Arg Lys Tyr Lys Leu Asn Leu Ser Ser Val Ser
1      5      10
Gly Cys Phe Lys Asp Asn Leu Asp Asp Ser Leu Ile Phe Thr Gly Ser
20      25      30
Thr Pro Phe Leu Ile Lys Ile Ala Phe Thr Arg Ser Val Ala Asn Phe
35      40      45
Ile Gln Pro Pro Val Val Ile Glu Ala Ser Leu Met Gln Val Gly His
50      55      60
Gln Gly Lys Tyr Val Asn Gln Leu Ala Thr Asn Gln Thr Val Ala Ile
65      70      75      80
Thr Leu Ser Met Tyr Leu Thr Arg Asp Gly Arg Ser Ser Cys Lys Ala
85      90      95
Lys Arg Arg Arg Ser Ser Arg Leu Tyr Ala Gly Arg
100      105

```

<210> 10453

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 10453

```

Arg Ser Ser Asp Ser Arg Leu Arg Glu Cys Lys Ile Gly Tyr Tyr Met
1      5      10
Asn Ile Asn Lys Asp Asp Glu Leu Leu Val Ile Val Lys Tyr Glu Gly
20      25      30
Arg Phe Tyr Trp Phe Val Ala Phe Lys Glu Met Trp Val Leu Asp Arg
35      40      45
Val Lys Trp Val Glu Asp Phe Val Lys Ser Gly Val Glu Ile Asn Leu
50      55      60
Gln Asn Thr His Lys Glu Arg Tyr Asp Ile Pro Val Val Asn Glu Glu
65      70      75      80
Asn Ala Gln Ile Phe Ile Asp Gly Leu Ile Asn Asp Gly Tyr Ser Tyr
85      90      95
Asp Lys Asp Asp Ile Ala Glu Glu Phe Tyr Lys Arg Leu Ser Gln Lys
100      105      110
Thr Ile Trp Trp Asp Ile Tyr Glu Leu Met Pro Asp Leu Phe Ile Asp
115      120      125

```

Phe Asp Asn Lys Arg Leu Tyr Ser Glu Tyr Val Glu Ser Met His Tyr
 130 135 140
 Gln Glu Tyr Val Pro Asp Gly Trp Gln Gly Glu Leu Val Asp Phe Cys
 145 150 155 160
 Ser Asn Gly Ser Leu Pro Gln Asp Glu Met Phe Trp Ile Lys Asn Glu
 165 170 175
 Thr Asp His Arg Ser Val Leu Ile Ala Lys Gly
 180 185

<210> 10454

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10454

Val Val Phe Asp Pro Leu Pro Glu Asp Ala Phe Gly Ala Asn Val Asn
 1 5 10 15
 Ile Lys Ile Asp Lys Val Phe Lys Leu Asp Gln Asn Ala Gln Arg Cys
 20 25 30
 Ile Val Val Pro Phe Phe Ile Thr Asp Lys Asn Lys Ile Gln Ile Ala
 35 40 45
 Ser Ala Thr Glu Lys Phe Asp Val Ser Ile Asn Val Thr Gly Lys Ile
 50 55 60
 Tyr Ser Leu Phe Tyr Glu Val Cys Glu Gly Asp Glu Ile Tyr Tyr Asn
 65 70 75 80
 Phe Thr Leu Val Pro Glu Lys Glu Ala Ile Thr Ala Lys Phe Leu Leu
 85 90 95
 Asp Asp Pro Trp Gly Gly Lys Lys Tyr Asn Pro Leu Lys Glu Gly Phe
 100 105 110
 Phe

<210> 10455

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10455

Thr Ala Thr Ser Thr Glu Pro Leu Pro Leu Glu Asp Ser Ala Glu Lys
 1 5 10 15
 Val Thr His Asn Arg Leu Thr Gln Leu Asn Val Ile Arg Trp His Tyr
 20 25 30
 Cys Tyr Asp Gly Glu His His Leu Thr Glu Val Ile Ser Gln Leu Arg
 35 40 45
 Asp Arg Asn Arg Pro Arg Thr Gln Val Ser Phe Arg Tyr Pro His Thr
 50 55 60
 Leu
 65

<210> 10456

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 10456

Gln Tyr Thr Ile Asp Gln Gly Asn Glu Phe His Asp Asn Gln Lys Tyr
 1 5 10 15
 Ala Glu Ala Leu Glu Gln Asn Gln Lys Ala Trp Gln Ala Leu Pro Glu
 20 25 30
 Pro Lys Leu Glu Trp Glu Leu Ala Asn Trp Ile Ala Ala Cys Met Tyr
 35 40 45

Ser Ala Cys Phe Asp Leu Ala Asp Tyr Ala Glu Glu Asn Lys Trp Gly
 50 55 60
 Lys Thr Thr Leu Arg Thr Arg Gly Ser Asp Ile Asp Thr Ala Pro Leu
 65 70 75 80
 Ile Asp Leu Gly Met Val Cys Tyr Glu
 85 90

<210> 10457

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 10457

Arg Ile Lys Tyr Ile Phe Gly Lys Pro Phe Leu Asp Ile Ala Met Val
 1 5 10 15
 Asp Ser Thr Arg Gln Phe Val Phe Val Leu Ser Glu Thr Lys Pro Leu
 20 25 30
 Pro Ile Val Leu Thr Ile Phe Asn Ala Gln Gly Glu Lys Leu Phe Trp
 35 40 45
 Ser Thr Ser Pro Glu Ser Ala Ile Phe Tyr Tyr Leu Thr Leu Asn Gln
 50 55 60
 Ser Lys Glu Val Val Val Val Cys Asn Phe Thr Val Ile Gln Asn Gly
 65 70 75 80
 Trp His Asn Trp Phe Tyr Ser Trp Asp Met Lys Arg Asn Ala Leu Ser
 85 90 95
 Arg Ser Gly Pro Ser Tyr
 100

<210> 10458

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10458

Thr Cys Tyr Tyr Asn Ser Gly Val Lys Ala Met Thr Asp Glu Glu Leu
 1 5 10 15
 Arg Lys Asn Leu Val Phe Leu Ile Lys Lys Tyr Val Pro Glu Ser Gln
 20 25 30
 Gln Lys Ala Phe Tyr Asp Asp Ile Ser Lys Ser Thr Val Pro Val Lys
 35 40 45
 Gly Ile Leu Ala Asp Phe Asn Lys Ile Lys Thr Arg Thr Val Asp Glu
 50 55 60
 Val Asp Gly Asp Leu Ile Arg Asp Ile Tyr Phe Tyr Phe Cys
 65 70 75

<210> 10459

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 10459

Gln Ile Gln Gln Glu Gln Leu Asn Gln Glu Lys Lys Ala Lys Glu Ala
 1 5 10 15
 Lys Ala Glu Glu Thr Asp Arg Pro Ser Ser Ile Thr Ile Ser Thr Ala
 20 25 30
 Asn Ser Gly Glu Gly Lys Glu Asn Lys Glu Asn Ala Glu Thr Gly Ser
 35 40 45
 Gly Lys Glu Pro Glu His Thr Glu Arg Asn Lys Asp Thr Asn Lys Thr
 50 55 60
 Thr Lys Ala Gln Gly Lys Gly Lys Gly Lys Thr Asn Ser Ala Gly Tyr
 65 70 75 80

```

Asn Gln Arg Thr Ala Pro Gly Glu Thr Glu Arg Ala Pro Gln Arg Ala
      85                      90                      95
Glu Arg His Gly Lys Asn Gln Arg Glu Ala Ala Ser Arg Thr Gly Gly
      100                    105                    110
Glu Thr Glu Lys Pro Lys Glu Glu Glu Arg Thr Gly Ala Arg Arg Pro
      115                    120                    125
Arg Pro Glu Arg Pro Arg Ser Gly Pro Ala Lys Thr Pro Lys Pro Gly
      130                    135                    140
Gly Gly Ala Gln Ser Thr Glu Ile Thr Gln Ile Lys Thr Ala Gly Leu
145      150      155      160
Ala Gly Asn Ala Ile Pro
      165

```

<210> 10460

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10460

```

Ser Pro Gly Arg Cys Glu Thr Trp Ser Ser Val Phe Ser Ala Thr Arg
1      5      10
Gly Trp Cys Pro Lys Ile Gln Thr Ala Glu Val Leu His Ala Lys Trp
      20      25      30
Pro Glu Leu Val Leu Arg Leu Cys Pro Val Lys Leu Ala Asp Ser Asn
      35      40      45
Gly Val Phe Gly Lys Asn Lys Cys Asp Ser Thr Ile Pro Lys Gly Phe
50      55      60
Arg Gly
65

```

<210> 10461

<211> 88

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (16)

<400> 10461

```

Ile Cys Pro Arg Thr Tyr Arg Arg Asn Phe Asn Thr Arg Lys Val Xaa
1      5      10      15
Thr Ser Phe Pro Leu Ala Glu Lys Lys Ala Arg Thr Val Gln Val Arg
      20      25      30
Ala Phe Phe Cys Phe Ser Cys Thr Arg Gln Pro Ala Ser Leu Pro Val
      35      40      45
Val Met Met Met Val Val Val Met Val Val Met Leu Met Arg Phe Met
50      55      60
Asp Val Val Tyr Ser Val Ile Ile Ile Cys Leu Cys Ser Ile Leu Leu
65      70      75      80
Gly Leu Lys Asp Arg Ala Pro
      85

```

<210> 10462

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 10462

```

Arg Val Gly Pro Arg Ser His Pro Ala Gly Gly His Met Ser Glu Pro
1      5      10      15

```

Arg Ser Asn Ala Gln Met Phe Asp Ile Asp Met Ser Ala Leu Arg Glu
 20 25 30
 Leu Arg Glu Ala Val Gly Ala Thr Gln Gln Gln Met Leu Met Ala Tyr
 35 40 45
 Asn Arg Ala Leu Asn Arg Thr Ala Lys His Met His Arg Val Ser Val
 50 55 60
 Gly Met Met Ile Asp Ala Leu Ala Val Lys Lys Arg Lys Val Ala Asn
 65 70 75 80
 Lys Arg Ile Lys Pro Phe Val Lys Arg Arg Asn Phe Gly Lys Glu Ser
 85 90 95
 Thr Gly Glu Leu Ser Ser Ala Lys Leu Trp Tyr Gly Leu Asn Asp Phe
 100 105 110
 Arg Val His Asp Leu Arg Gly Ser Met Arg Lys Gln Arg Lys Gln Lys
 115 120 125
 Gln Lys Arg Asp Pro Glu Thr Gly Gln Phe Met Lys Thr Glu Lys Gly
 130 135 140
 Ala Arg Gly Ala Thr Phe Ile Pro Lys Ser Ala Gly Leu His Ser Met
 145 150 155 160
 Ser Trp Pro Asp Ser Phe Val Ala Lys Arg Tyr Ser Val Lys Ser Ile
 165 170 175
 Trp Ile Arg Arg Glu Gly Gly Gly Val Glu Glu Ala Arg Val Pro Val
 180 185 190
 His Glu Ala Leu Glu Asp Ala Ile Asp Asp Tyr Ile Phe Glu Asn Ile
 195 200 205
 Gly Ser Val Phe Met Arg Tyr Phe Glu Gln Asp Leu Arg Gly Arg Val
 210 215 220
 Ala Gly Asn Val Gln
 225 230

<210> 10463

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 10463

Ala Gly Phe Thr Gly Pro Arg Gly Gly Glu Arg Ser Met Thr Ala Thr
 1 5 10 15
 Ala Glu Ala Gly Met Asp Ala Phe Asp Glu Tyr Thr Asn Arg Val Arg
 20 25 30
 Ala Ala Val Leu Gln Ile Pro Phe Val Lys Thr Phe Gly Val Tyr Pro
 35 40 45
 Glu Ile Pro Glu Gly Phe Gln Thr Pro Ala Val Phe Phe Glu Ile Glu
 50 55 60
 Asn Trp Glu Pro Ser Ser Glu Val Ile Ala Gly Ser Ala Leu Thr Val
 65 70 75 80
 Ser Leu Asn Cys Ser Leu Tyr Val Leu Arg Glu Phe Ala Ala Asp Gln
 85 90 95
 Tyr Gly Gln Lys Ala Arg Asn Ala Ala Leu Tyr Ile Ser Ser Trp Ile
 100 105 110
 Asp Gly Arg Gly Phe Gly Pro Ala Thr Leu Pro Ala Thr Phe Gly Gly
 115 120 125
 Ser Glu Pro Ala Asp Trp Ile Lys Asn Gly Lys Ala Leu Gly Ser His
 130 135 140
 Ser Val Trp Cys Val Ser Phe Ser Gln Val Val Gly Val Gly Val Gly
 145 150 155 160
 Pro Phe Val Thr Pro Ala Asp Ala Pro Leu Leu Lys Glu Val Phe Val
 165 170 175
 Gly Leu Ala Pro Asp Ile Gly Lys Glu His Glu Ala Asp Tyr Val Arg
 180 185 190
 Val Phe Pro Arg
 195

<210> 10464
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 10464
 Gly Arg Arg Gly Lys Arg Ser His Pro Arg Gln Gln Ala Ala Tyr Lys
 1 5 10 15
 Leu Thr Val Leu Leu Ile Pro Phe Arg Phe Leu Ala Cys Arg Leu Val
 20 25 30
 Val Asp Ile Val Phe Asn Thr Ser Phe Lys Arg Asn Cys Leu Val Lys
 35 40 45
 Leu Arg Met Gly Val Leu Leu Thr Gly Leu Leu Ala Gly Cys
 50 55 60
 Asp
 65

<210> 10465
 <211> 104
 <212> PRT
 <213> Enterobacter cloacae

<400> 10465
 Asn Thr Leu His Gly Gln Leu Ala Asp Met Lys Val Lys Ile Ser Arg
 1 5 10 15
 Met Ser Phe Gly Cys Pro Leu Ala Asp Leu Arg Arg Ser Lys His Ser
 20 25 30
 Glu Pro Arg Tyr Gly Ala Gln Asn Asp Asn Arg Asn Asn Glu Phe Cys
 35 40 45
 Gln Asp Ala Val Ser His Gln Gly Asn Ala Ala Ile Ile Ile Pro Phe
 50 55 60
 Pro Asp His Asn Phe Lys Pro Gly Thr Gln Val Lys Pro Val Cys Cys
 65 70 75 80
 Ser Gln Lys Lys His Gln Asn Lys Gln Ser Arg Leu Gly Lys Gln Tyr
 85 90 95
 Pro Pro Pro Gly Thr Val Glu
 100

<210> 10466
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221>UNSURE
 <222>(16)

<220>
 <221>UNSURE
 <222>(17)

<220>
 <221>UNSURE
 <222>(18)

<220>
 <221>UNSURE
 <222>(19)

<220>

<221>UNSURE
<222> (20)

<220>
<221>UNSURE
<222> (21)

<220>
<221>UNSURE
<222> (22)

<220>
<221>UNSURE
<222> (23)

<220>
<221>UNSURE
<222> (24)

<220>
<221>UNSURE
<222> (25)

<220>
<221>UNSURE
<222> (26)

<220>
<221>UNSURE
<222> (27)

<220>
<221>UNSURE
<222> (28)

<220>
<221>UNSURE
<222> (29)

<220>
<221>UNSURE
<222> (30)

<220>
<221>UNSURE
<222> (31)

<220>
<221>UNSURE
<222> (32)

<220>
<221>UNSURE
<222> (33)

<220>
<221>UNSURE
<222> (34)

<220>
<221>UNSURE

2025 RELEASE UNDER E.O. 14176

<222> (35)

<220>

<221>UNSURE

<222> (57)

<220>

<221>UNSURE

<222> (58)

<220>

<221>UNSURE

<222> (59)

<220>

<221>UNSURE

<222> (60)

<220>

<221>UNSURE

<222> (61)

<220>

<221>UNSURE

<222> (62)

<220>

<221>UNSURE

<222> (63)

<220>

<221>UNSURE

<222> (64)

<220>

<221>UNSURE

<222> (65)

<220>

<221>UNSURE

<222> (66)

<220>

<221>UNSURE

<222> (67)

<220>

<221>UNSURE

<222> (68)

<220>

<221>UNSURE

<222> (69)

<220>

<221>UNSURE

<222> (70)

<220>

<221>UNSURE

<222> (71)

<220>
<221>UNSURE
<222> (72)

<220>
<221>UNSURE
<222> (73)

<220>
<221>UNSURE
<222> (74)

<220>
<221>UNSURE
<222> (75)

<220>
<221>UNSURE
<222> (76)

<220>
<221>UNSURE
<222> (77)

<220>
<221>UNSURE
<222> (78)

<220>
<221>UNSURE
<222> (79)

<220>
<221>UNSURE
<222> (80)

<220>
<221>UNSURE
<222> (81)

<220>
<221>UNSURE
<222> (82)

<220>
<221>UNSURE
<222> (83)

<220>
<221>UNSURE
<222> (84)

<220>
<221>UNSURE
<222> (85)

<220>
<221>UNSURE
<222> (86)

<220>
 <221>UNSURE
 <222>(87)

<220>
 <221>UNSURE
 <222>(88)

<220>
 <221>UNSURE
 <222>(89)

<220>
 <221>UNSURE
 <222>(90)

<220>
 <221>UNSURE
 <222>(91)

<220>
 <221>UNSURE
 <222>(92)

<220>
 <221>UNSURE
 <222>(93)

<220>
 <221>UNSURE
 <222>(94)

<220>
 <221>UNSURE
 <222>(95)

<220>
 <221>UNSURE
 <222>(96)

<220>
 <221>UNSURE
 <222>(97)

<220>
 <221>UNSURE
 <222>(98)

<220>
 <221>UNSURE
 <222>(99)

<400> 10466

Asp	Glu	Ala	Gln	Val	Arg	Lys	Arg	Leu	Met	Pro	Val	Pro	Val	Asp	Xaa
1			5					10						15	
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			20					25					30		
Xaa	Xaa	Xaa	Gly	Leu	Thr	Asp	Lys	Asp	Val	Ala	Gly	Lys	Tyr	Val	Asn
			35				40					45			
Ala	Arg	Gly	Glu	Gln	Arg	Met	Arg	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	50					55					60				

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 65 70 75 80
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 85 90 95
 Xaa Xaa Xaa Pro Pro His Ser Cys Leu Ser Val Tyr Pro Cys Gln Ser
 100 105 110
 Ala Val Met Ala Ala Val Ser Ile Ala Thr Pro Asp
 115 120

<210> 10467

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10467

Asn Pro Leu Arg Ile Lys Val Ala Val Phe Ser Met Arg Gly Glu Lys
 1 5 10 15
 Arg Val Asp Glu Lys Ile Gly Gly Leu Cys Gly Ile Ser Phe Ala Gly
 20 25 30
 Asn Phe Ala Arg Gln Arg Ala Gly Ser Ala Gly Ser Gln Arg
 35 40 45
 Leu Glu Arg Ser Asp Ala Arg Pro Ser Gly Ala Asp Pro Gly Ala Phe
 50 55 60
 Glu Arg Tyr Cys Arg Arg Pro Ser Gly Val Gln Pro Arg Arg Pro
 65 70 75 80
 Gly Arg Ala Gly Asp
 85

<210> 10468

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 10468

Glu Asp Val Gly Trp Arg Val Thr Arg Ala Thr Lys Lys Asp Leu Ser
 1 5 10 15
 Trp Phe Asn Leu Ser Asn Tyr Asp Phe Ile Asn Asn Leu Thr Leu Ser
 20 25 30
 Glu Phe Ile Val Glu Leu Glu Trp Arg Asp Phe Leu Tyr Arg Asn Val
 35 40 45
 Asn Glu Asp Asp Leu Phe Phe Asp Glu Glu Tyr Glu Ile Lys Tyr Gln
 50 55 60
 Arg Ile Phe Gly Gly Asp Pro His Leu Asp Ile Pro Asn Glu Glu Glu
 65 70 75 80
 Lys Glu Ile Asp Glu Phe Val Arg Lys Val Asn Ser Glu Thr Pro Ser
 85 90 95
 Leu Leu Asn Met Tyr Gly Thr Leu Pro His Leu Pro Ser Asp Pro Arg
 100 105 110
 Val Ser Pro Ile Ser Phe Thr Glu Leu Ser Lys Tyr Gly
 115 120 125

<210> 10469

<211> 61

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (50)

<400> 10469

Pro Leu Arg Ile Arg Val Ser Ile Ser Ala Ile Gly Ser Cys Met Leu
 1 5 10 15
 Ile Cys Leu Tyr Ser Arg Asp Ser Ile Gly Asn Tyr Gln Leu Ala Phe
 20 25 30
 Phe Lys Pro Gly Thr Ser Pro Arg Met Ala Ala Ser Arg Ser Leu Ile
 35 40 45
 Arg Xaa Ser Pro Gly Gly Gly Lys Asp Lys Arg Lys Gly
 50 55 60

<210> 10470

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 10470

Asn Ser Leu Lys Gln Val Glu Tyr Ser Arg Tyr Ser Ile Ser Ala Ser
 1 5 10 15
 Pro His Pro Ser Trp Gln Ala Lys Lys Glu Trp Leu Ser Gln Gln Leu
 20 25 30
 Val Thr Ser Met Cys Leu Ser Ala Lys Cys Arg Lys Ala Asn Asn Thr
 35 40 45
 Ala Ala Ala Val Val Gln Thr Gly Tyr Ser Asp Leu Leu Cys Leu Leu
 50 55 60
 Asn Thr Asp Leu Asn Leu Ser Leu Lys Leu Ala Ala Ile Phe Arg Tyr
 65 70 75 80
 Gly His Leu Val Leu Asn Ser Leu Ile Ala Thr Ser Tyr Asn Val Glu
 85 90 95
 Ile His Cys Gly Tyr Tyr Asn Tyr Tyr Tyr
 100 105

<210> 10471

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10471

Leu Ala Phe Glu Val Tyr Thr Phe Lys Pro Gly Ala Thr Ala Glu Ser
 1 5 10 15
 Phe Tyr Leu Ser Leu Ala Gln Ala Arg Lys Cys Ser Gln Phe Cys Leu
 20 25 30
 Asn Asn Pro Phe Ser Ile Lys Tyr Asp Leu Arg His Asp Asp Ser Met
 35 40 45
 Thr Pro Pro Arg Tyr Arg Gly Gly Arg Lys Phe Val Asp
 50 55 60

<210> 10472

<211> 249

<212> PRT

<213> Enterobacter cloacae

<400> 10472

Arg Lys Gln Thr Ser Leu Asn His Asn Thr His Gly Asn Pro Val Trp
 1 5 10 15
 Val Ile His Leu Asn Gly Lys Glu Val Ile Met Ser Val Glu Leu Lys
 20 25 30
 Thr Phe Gly Gly Ala Tyr Phe Pro Lys Asp Lys Ala Leu Lys Lys Leu
 35 40 45
 Pro Asp Leu Lys Pro Leu Ala Ile Ala Val Asn Ala Leu Asn Lys Ser
 50 55 60
 Ile Ala Glu Ala Val Ile Phe Gly Lys Leu Ala Ala Glu His Pro Glu
 65 70 75 80

```
<210> 10473
<211> 80
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10474
<211> 81
<212> PRT
<213> Enterobacter cloacae
```

<210> .10475
<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 10475

```

Thr Glu Ile Thr Phe Ser Ser Pro Asn Ile Leu Ala Thr Asn Lys Met
1      5      10
Val Val Leu Met Ile Val Leu Lys Ser Phe Leu Phe Phe Val Gly Ala
      20      25      30
Ala Ala Ala Cys Ala Leu Ile Val Leu Cys Leu Trp Val Asp Met Arg
      35      40      45
Phe Val Gly His Asp Ile Pro Glu Leu Ser Leu Thr Glu Ile Met Gln
      50      55      60
Glu Thr Val Leu Ala Ser Ile Val Phe Leu His Phe Arg Leu Ala Lys
65      70      75      80
Met Tyr Asp Ser Met Arg Tyr Cys Asn Ile Leu Val Gly Gly Phe Phe
      85      90      95
Leu Thr Met Leu Ile Arg Glu Leu Asp Ala Leu Phe Asp Leu Ile Ser
      100      105      110
His Gly Ser Trp Val Trp Phe Ala Leu Ile Thr Ala Val Leu Ala Leu
      115      120      125
Ile Arg Pro Val Met His Phe Arg Ala Thr Leu Glu Gln Leu Ala Lys
      130      135      140
Tyr Thr Gln Ser Pro Trp Tyr Gly Ile Leu Leu Ser Gly Leu Leu Ala
145      150      155      160
Val Leu Val Phe Ser Arg Leu Phe Gly Met Gln Val Leu Trp His Ala
      165      170      175
Ile Leu Glu His Gly Tyr Met Arg Val Val Lys Asn Ala Val Glu Glu
      180      185      190
Gly Ser Glu Ser Phe Gly Tyr Met Leu Cys Leu Ala Ala Ser Leu Gly
      195      200      205
Tyr Tyr Val Thr Phe Pro Ala His Ala Arg Gln Lys
      210      215      220

```

<210> 10476

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10476

```

Asn Gln Arg Leu Ser Leu Asp Tyr Gln Gln Lys Glu Ala Gly Met Ser
1      5      10
Asp Phe Asp Thr Asp Lys Asn Ala Gln Tyr Ala Gly Asp Lys Ala Lys
      20      25      30
Asn Lys Leu Asp Glu Leu Ser Gly Ser Ala Gln Gln Gln Phe Gly Glu
      35      40      45
Phe Val Asp Ser Pro Lys His Gln Val Lys Gly Ala Ala Lys Asn Tyr
      50      55      60
Ala Val Phe Thr Tyr Glu Ala Asp Arg Ser Ala Leu Arg Cys Ala Gly
65      70      75      80
Gln Gly Gly

```

<210> 10477

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10477

```

Ile Cys Arg His Arg Leu Arg Arg Phe Glu Ser Phe Pro His His His
1      5      10      15
Phe Leu Ala Ala Ser Thr Pro Pro Glu Leu Val Gly Lys Ile Asp Gln

```

20 25 30
 Leu Glu Gln Lys Arg Glu Lys Ser Leu Phe Leu Leu Gln Lys Glu Leu
 35 40 45
 Gly Ser Arg Val Ser Gly Cys Gly His Arg Ile Met Ala Ile Thr Ser
 50 55 60
 Ala Phe Gln Ala Asp Asp Ala Gly Ser Ile Pro Ala Ala Arg Ser Asn
 65 70 75 80
 Thr Cys

<210> 10478

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10478

Val Pro Gln Arg Ala Gln Pro Leu Ser Phe Val Ala Ser Gly Gln Ala
 1 5 10 15
 Gly Asn Ser Lys Glu Thr Ala Ser Asp Lys Leu Glu Glu Gly Gly Asp
 20 25 30
 Asp Val Lys Ser Ser Trp Pro Leu Arg Val Gly Leu His Thr Cys Tyr
 35 40 45
 Asn Gly Ala Tyr Lys Glu Lys Arg Pro Arg Glu Ser Lys Arg Thr Ser
 50 55 60

65

<210> 10479

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10479

Val Ala Asp Pro Leu Tyr Lys Arg Tyr Ala Val Thr Pro Arg Arg Cys
 1 5 10 15
 Ser His Cys Leu Tyr Val His Gly Phe Arg Phe Phe Phe Thr Pro Leu
 20 25 30
 Ala Gly Val Leu Phe Ala Phe Pro Ser Arg Tyr Trp Phe Thr Ile Gly
 35 40 45
 Gln Ser Gly Val Phe Ser Leu Gly Gly Trp Ser Pro His Ile Gln Thr
 50 55 60
 Gly Tyr His Val Ser Arg Pro Thr Leu Arg Val His Ser Met Cys Ile
 65 70 75 80
 Phe Val Tyr Gly Thr Ile Thr Leu Tyr Arg Arg Thr Phe Gln Thr Val
 85 90 95
 Pro Leu Thr His Lys Leu Ile Gln Thr Pro Gly Cys Ser Pro Phe Ala
 100 105 110
 Arg Arg Tyr Trp Gly Asn Leu Gly
 115 120

<210> 10480

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10480

Ala Ala Arg Tyr Leu Pro Ala Pro Trp Ala Glu Asp Pro Leu Asn Gln
 1 5 10 15
 Pro Tyr Thr Thr Asp Ile Met Gly Thr Ala Thr Ala Pro Asp Pro Glu
 20 25 30
 Thr Leu Thr Leu Asp Val Tyr Tyr Tyr Lys Thr Asn Ala Ala Ala Ala

35 40 45
 Thr Val Gly Glu Leu Ser Ser Asn Val Thr Tyr Thr Ile Ser Tyr Leu
 50 55 60

65

<210> 10481

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10481

Cys Arg Thr Gly Lys Ser Ala Gln Thr Ser Gly Val Ile Met Glu Asp
 1 5 10 15
 Leu Glu Thr Thr Ile Met Glu Leu Leu Val Asn Ala Gly Ala Ala Arg
 20 25 30
 Ser Ala Ala Gln Thr Ala Lys Gln Lys Ala Arg Lys Gly Asp Lys Asp
 35 40 45
 Glu Ala Glu Lys Ala Lys Glu Glu Ser Arg Glu Lys Glu Lys Gln Val
 50 55 60
 Pro Asp Lys Arg Ser Arg Arg Ser Lys Ser Val Lys Thr Lys Gly Gln
 65 70 75 80
 Glu Asn Ser Arg Lys Thr Arg Ser Pro Ile Ile Leu Arg Thr Thr Arg
 85 90 95
 Arg Thr Arg Arg Lys Asn Arg Ile Arg Arg Ala Thr Arg Lys Ser Lys
 100 105 110
 Ile Asp Ala Ser Arg Arg Lys Thr Glu Asn Ala Asp Ile Lys Lys Pro
 115 120 125
 Ala Glu Ala Gly Phe Tyr Ile Tyr Ala His Gln Thr Lys Arg Ser
 130 135 140

<210> 10482

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10482

Glu Ser Asp Val Glu Lys Glu Gln Leu Val Glu Ile Ala Asn Thr Glu
 1 5 10 15
 Met Pro Phe Gly Lys Tyr Lys Gly Arg Arg Leu Ile Asp Leu Pro Glu
 20 25 30
 Glu Tyr Leu Leu Trp Phe Ala Arg Lys Asp Glu Phe Pro Ala Gly Arg
 35 40 45
 Leu Gly Glu Leu Met Ala Ile Thr Leu Leu Ile Lys Thr Glu Gly Leu
 50 55 60
 Thr Gln Leu Val Gln Pro Leu Lys Arg Pro
 65 70 75

<210> 10483

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10483

His Ile Pro Ile Ala Ala Arg Pro Leu Val Leu Leu Lys Leu Thr Pro
 1 5 10 15
 Ser Leu Pro Ile Pro Leu Phe Tyr Gly Glu Lys Asp Leu Asn Met Thr
 20 25 30
 Thr Leu Lys Pro Val Ser Leu Ser Ala Met Glu Ile Gly Ser Val Asp
 35 40 45
 Asn Ser Ser Gly Gly Asn Asp Ile Ala Ser Gln Ile Thr Arg Leu Thr

```

      50                      55                      60
Lys Gln Ile Thr Lys Val Thr Gln Gln Leu Lys Glu Val Ala Met Gly
65                      70                      75                      80
Asp Ala Thr Ala Glu Glu Lys Gln Lys Gln Glu Leu Leu Glu Ser
      85                      90                      95
Gln Leu Ala Met Leu Gln Ala Gln Leu Ala Gln Leu Gln Arg Gln Gln
      100                      105                      110
Ala Glu Glu Ala Met Pro Lys Gln Glu Lys Gly Glu Ala Val Ala Glu
      115                      120                      125
Gly Ile Asn Lys Pro Ser Ala Glu His Gln Ile Asn Ile Tyr Val
      130                      135                      140

```

<210> 10484

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10484

```

Trp Lys Ile Ser Pro Ser His Gly Ile Trp Arg Gly Glu Leu Ile Arg
1      5      10      15
Asn Asn Tyr Tyr Pro Gln Ala Ala Arg Gln Gly Gly Glu Tyr Leu Ala
      20      25      30
His Thr Leu Ile His Thr Ser Asp Phe Tyr Leu His Pro His Glu Lys
      35      40      45
Lys Ala Gln Val Ala Lys Phe Ile Asn Arg Phe Ala Phe His Arg Arg
      50      55      60
Leu Trp Arg Ala Arg
65      70

```

<210> 10485

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10485

```

Tyr Met Ile Val Pro Ser Gly Ile Ser Leu Leu Thr Ala Ile Asp Asp
1      5      10      15
Ile Leu Ser Gly Ile Leu Thr Leu Leu Ala Val Leu Asn Thr Asp Ala
      20      25      30
Leu Ser Ser Glu His Val Ser Ala Ile Ala Ala Phe Glu Lys Ile Ser
      35      40      45
Arg Gln Lys Asn Val Ala Thr Leu Ile His Pro Glu Ile Phe Ile Ser
      50      55      60
Pro Ser
65

```

<210> 10486

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 10486

```

Arg Pro Val Met Ser Lys Ile Pro Gly Thr Asp Ile Gln Pro Ala Val
1      5      10      15
Gln Arg Arg Val Glu Val Val Ile Phe Pro Ala Ala Ile Phe Ala Ala
      20      25      30
Ile Thr Ile His Val Ile Pro Gln His Gln Arg Gly Asp Pro Gly Ile
      35      40      45
Pro Glu His Arg Val Tyr Ala Ala Cys Asp Met Leu Gln His Gly
      50      55      60
Leu Gly Asp Thr Asp Ile Lys Ala Leu Ser Ala Pro Val Lys Phe Gln

```

5831

65 70 75 80
Pro Ala Phe Trp Gln Asp Gly Leu Glu Ile Ala Pro Leu Pro Gly Ile
85 90 95
Ser Gly Ala Gln Pro Ala Phe Phe
100 105

<210> 10487
<211> 146
<212> PRT
<213> Enterobacter cloacae

<400> 10487
Gln Arg Tyr Asp Ser Ser Leu Gly Lys Val Tyr Ser Asp Gly Arg Gln
1 5 10 15
Arg Asp Gly Gly His Gly Glu Arg Gln Ala Ser Leu Tyr Asn Lys Leu
20 25 30
Leu Leu Lys Ser Asp Ile Leu Ile Ala Val Ala Tyr Val Met Arg Phe
35 40 45
Leu Phe Ser Phe Cys Leu Gly Leu Leu Val Leu Leu Asn Thr Thr Val
50 55 60
Cys Phe Ala Thr Cys Ser Ala Thr Tyr Leu Tyr Asn Pro Val Pro Lys
65 70 75 80
Val Pro Leu Leu Thr Asn Ser Ile Ser Leu Gly Lys Asp Ala Pro Val
85 90 95
Gly Thr Val Leu Tyr Arg Gln Thr Ile Thr Pro Ser Gly Thr Tyr Asp
100 105 110
Met Lys Cys Asp Ser Asn Thr Asp Val Thr Phe Leu Tyr Ile Ile Ala
115 120 125
Asp Pro Val Gly Leu His Tyr Glu Val Ala Lys Ile Ala Ala Tyr Ile
130 135 140
Pro Pro
145

<210> 10488
<211> 83
<212> PRT
<213> Enterobacter cloacae

<400> 10488
Met Ala Leu Gly Arg Met Thr His Ser Ser Ala Leu Leu Arg Ala Arg
1 5 10 15
Met Val Gln Asp Ile Tyr Asp Ile Gly His Gln Lys Asp Tyr Val Leu
20 25 30
Asp Met Arg Ser Lys Lys Tyr Gln Lys His His Asn Ser Asn Gly Ile
35 40 45
Gln Arg Asn Ala Phe Val Leu Leu Val His Gln Thr Thr Gln Asn Ser
50 55 60
Cys Ser Tyr Ile Lys Asp Ser Phe Ala Lys Gly Leu Ser Gln Lys Ala
65 70 75 80
Phe Ala

<210> 10489
<211> 150
<212> PRT
<213> Enterobacter cloacae

<400> 10489
Thr Leu Lys Lys Gly Gly Leu Cys Glu Arg Lys Asp Arg Asn Lys Lys
1 5 10 15
Val Leu Phe Ile Arg Val Tyr Val Asn Ser Asn Leu His Gly Val Ile

65 70 75 80
85 90 95
100 105
110 115 120 125 130 135 140 145

```
<210> 10490
<211> 121
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10491
<211> 119
<212> PRT
<213> Enterobacter cloacae
```

<400> 10491																
Ser	Cys	Met	Arg	Gly	Phe	Ile	Pro	Leu	Ser	Gly	Phe	Leu	Met	Ser	Lys	
1				5					10					15		
Gln	Asn	Asp	Val	Pro	Gln	His	Thr	Tyr	Arg	Phe	Pro	Phe	Arg	Ile	Asn	
			20					25					30			
Met	Pro	Leu	Leu	Ile	Leu	Phe	Trp	Asp	Ala	Lys	Lys	Leu	Gly	Leu	Ala	
		35					40					45				
Phe	Ile	Leu	Val	Ala	Phe	Gly	Asn	Ile	Phe	Glu	Cys	Phe	Gly	Phe	Ser	
	50					55					60					
Val	Val	Ala	Xaa	Val	Val	Tyr	Trp	Ile	Ala	Tyr	Asn	Lys	Ala	Ala	Glu	
65					70					75					80	

Ser Gly Ile Arg Gly Leu Leu Lys His Lys Leu Trp Trp Leu Gly Phe
 85 90 95
 Leu Pro Ser Lys Ala Val Phe Ser Ser Arg Tyr Phe Asn Asp Pro Phe
 100 105 110
 Ile Arg Asp Leu Tyr Ser
 115

<210> 10492

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 10492

Val Tyr Leu Leu Asp Val Ser Ala Leu Phe Gly Lys Phe Glu Val His
 1 5 10 15
 Val Ser Cys Ser Lys Gln Glu Glu Asp Met Asn Asn Ser Lys His Thr
 20 25 30
 Val Ile Glu Val Asp Thr Asn Leu Val Glu Ile Glu Lys Gly Phe Asn
 35 40 45
 Pro Arg Glu Ala Val Ile Gly Asp Leu Cys Tyr Glu Gln Glu Pro Val
 50 55 60
 Lys Ser Met Ile Val Ser Ile Lys Gln Ala Phe Lys Glu Gly Arg Gln
 65 70 75 80
 Val Asp Met Ile Lys Val Val Lys Arg Lys Gly Lys Tyr Leu Val Arg
 85 90 95
 Gln Gly His Thr Arg Phe His Gly Leu Lys Leu Ala Ile Ser Glu Gly
 100 105 110
 Ala Asn Ile Pro Lys Leu Ser Val Ile Leu Ile Asp Tyr Lys Asn Glu
 115 120 125
 Ile Glu Glu Tyr Leu Glu Asn Leu Asp Gly Asn Arg Ser Asn Gly Leu
 130 135 140
 Asn Pro Val Gly Gln Ala His Ala Leu Ala His Ala Val Ser Leu Gly
 145 150 155 160
 Tyr Ser Val Glu Glu Leu Gly Lys Val Arg Ile Ser Gly Glu Ile Leu
 165 170 175
 Leu Gly

<210> 10493

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10493

Leu Asn Ser Ser Val Ile Arg Phe Ser Phe Gly Lys Leu Phe Ile Thr
 1 5 10 15
 Tyr Ser Cys Lys Cys Phe Leu Arg Ile Tyr Leu Asn Ala Ile Ser Ile
 20 25 30
 Pro Val Asn Ala Phe Leu Ile His Ser Asn Ala Phe Arg Met His Pro
 35 40 45
 Asn Ala Gly Ser Phe His Lys Val Thr Ile Ile Asn Glu Leu Lys Met
 50 55 60
 Pro
 65

<210> 10494

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 10494

His Val Ser Glu Ser Pro Ala Lys Cys Lys Arg Phe Ala Leu Lys Arg
 1 5 10 15
 Met Arg Asn Leu Arg Glu Ile Ala Gly Ala Lys Lys Leu Lys Ile Leu
 20 25 30
 Lys Phe Lys Glu Leu Leu Met Ser Asn Tyr Leu Lys Ile Arg Phe Cys
 35 40 45
 Thr Phe Ser Leu Leu Val Ser Leu Lys Glu Gln Gly Lys Val Cys Ala
 50 55 60
 Thr Ala Arg Met Pro Thr Glu
 65 70

<210> 10495

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 10495

Ile Arg Gly Ser Tyr Met Val Tyr Glu Asn Glu Leu Trp His Ser Phe
 1 5 10 15
 Leu Leu Arg Ser Gln Ile Met Tyr Asn Leu Ser Asn Cys Arg Asn Ile
 20 25 30
 Ile Ser Lys His Gly Ala Leu Arg Tyr Asp Ala Phe Pro Arg Phe Glu
 35 40 45
 Leu Ile Asp Met Tyr Lys Leu His Ser Leu Gln Asp Ile Tyr Asp Ile
 50 55 60
 Leu Ala Thr Arg Asn Gly Tyr Ile Leu Thr Ser Asn Ile Val Ser Leu
 65 70 75 80
 Ser Ser Gly Val Tyr Gly Tyr Phe Asn Ala Ile Glu Asp Ala Cys Arg
 85 90 95
 Lys Asn Phe His Ile Thr Asn Ser Tyr Pro Leu Val Asn Ile Ser Asn
 100 105 110
 Ile Arg Tyr Cys His Lys Cys Ile Val Glu Asp Ile His Ser Lys Gly
 115 120 125
 Ile Gly Tyr Leu Arg His Arg Trp Leu Phe Glu Ser Lys Cys Ala Val
 130 135 140
 His Ser Thr Ser Leu Tyr Glu Val Cys Phe Asp Asn Tyr Leu Asn Ala
 145 150 155 160
 Val Lys Gly Leu Ser Asp Leu Ile Ile Ser Gly Ile Asn Pro His Gly
 165 170 175
 Tyr Cys Ser Leu Val Val Asp Val Ser Asn Pro Phe Lys Asn Pro Val
 180 185 190
 Tyr Ile Leu Pro Cys Ala Arg Asn Lys Ile Leu Lys Trp Ile Ser Asp
 195 200 205
 Asn Lys Asn Met Leu Ile Tyr Phe Leu Phe Asp Leu Phe Lys Cys Lys
 210 215 220
 Ser His Ser Ser Leu Ser Lys Val Ile Glu Val Lys Ile Met His Asp
 225 230 235 240
 Arg Tyr Ile Ser Ala Val Phe Lys Met Leu Ser Glu Val Asn Phe Cys
 245 250 255
 Asn Phe Asn Ser Phe Ile Ser Asp Ile Phe Glu Asp Val Ser Tyr Ala
 260 265 270
 Ser Ile Gly Leu Asp Asp Tyr Ser Val Asn Val His Phe Leu Arg Leu
 275 280 285
 Arg Ala Ala Asp Cys Lys Phe Cys Gln Leu Asn Gly Lys Tyr Phe Cys
 290 295 300
 Ser Leu Tyr Asn Val Lys Leu Leu Arg
 305 310

<210> 10496

<211> 557

<212> PRT

<213> Enterobacter cloacae

<400> 10496

```

Met Asn Ala Asp Lys Asn Asp Met Asn Cys Phe Ser Leu Arg Glu Gly
1      5      10      15
Asp Gly Arg Phe Glu Ile Ala Cys Glu Phe Asp Asp Leu Pro Asp Phe
20      25      30
Ile Met Ile Asp Asp Arg Val Gln Thr Thr Leu Ala Ser Glu His Leu
35      40      45
Leu Asn Glu Asp Gly Asn Phe Glu Ile Val Lys Thr Phe Lys Ala Thr
50      55      60
Thr Ser Gly Lys Pro Glu Gln Thr Cys Ile Arg Cys Ile His Pro Asp
65      70      75      80
Glu Glu Pro Leu Arg Asn Leu Leu Gly Met Lys Ile Ser Glu Leu Lys
85      90      95
Ala Val Gly Lys Glu Val Glu Lys Asn Val Ala Asp Lys Arg Thr Ala
100     105     110
Ser Leu Trp Arg Gln Ala Ile Arg Glu Ala Ala Ala Pro Tyr Thr Cys
115     120     125
Ser Glu Ile Met Leu Asp Val Asp Lys Glu Phe Gly Thr Asp Thr Lys
130     135     140
Ser Leu Trp Gly Lys Ile Leu Asp Leu Leu Pro Thr Tyr Ala Ile Phe
145     150     155     160
Lys Ala Asp Arg Glu Ser Ser Asp Gly Asp Ser Glu Ala Lys Asn Pro
165     170     175
Leu Gln Gln Ala Val Lys Asp Ala Gln Ala Ala Leu Gln Asp Lys Ile
180     185     190
Thr Ala Leu Glu Asn Glu Ile Gln Asp Ser Val Leu Asp Val Ala Gln
195     200     205
Arg Thr Leu Asp Lys Leu Arg Glu Met Ala Pro Glu Leu Ala Ser Glu
210     215     220
Leu Thr Pro Arg Phe Lys Glu Lys Pro Lys Trp Thr Phe Asn Phe Thr
225     230     235     240
Leu Asp Gly Glu Asn Gly Ile Pro Ile Asn Lys Arg Gly Ser Gly Ile
245     250     255
Arg Arg Leu Ile Leu Leu Asn Phe Phe Arg Ala Glu Ala Glu Lys Asn
260     265     270
Val Ala Gly Thr Pro Arg Asn Val Ile Tyr Ala Ile Glu Glu Pro Glu
275     280     285
Thr Ser Gln His Pro Asn Tyr Gln Met Met Leu Met Lys Ala Leu Leu
290     295     300
Ala Leu Ala Gly Gln Pro His Arg Gln Ile Ile Val Thr Thr His Val
305     310     315
Pro Ala Leu Ala Gly Leu Ile Pro Val Glu Gly Val Arg Tyr Val Thr
325     330     335
Arg Asn Glu Ala Gly Glu Pro Val Val Lys Met Pro Asp Asp Ala Val
340     345     350
Leu Lys Glu Ala Thr Glu Ser Leu Gly Val Leu Pro Glu Thr Gly Met
355     360     365
Glu Arg Ala Gln Gly Ile Val Leu Val Glu Gly Lys Ser Asp Val Thr
370     375     380
Phe Leu Arg His Ala Ala Ser Ser Leu Lys Gln Ser Gly Ala Leu Pro
385     390     395     400
Ala Ser Leu Glu Asp Val Lys Ile Val Pro Val Leu Ile Gly Gly Cys
405     410     415
Gly Ser Val Lys His Trp Val Thr Leu Asn Leu Ala Lys Asp Leu Gly
420     425     430
Leu Pro Trp Cys Val Phe Leu Asp Ser Asp Ile Gly Gly Asp Pro Ala
435     440     445
Gln Val Leu Ser Ile Gln Lys Arg Lys Lys Glu Val Glu Glu Ala Gly
450     455     460

```

Lys Val Phe Phe Ala Thr Arg Lys Arg Glu Ile Glu Asn Tyr Leu Cys
 465 470 475 480
 Pro Asp Leu Ile Glu Ile Thr Gly Val Ala Val Thr Phe Thr Asp
 485 490 495
 Thr Cys Asp Ala Lys Lys Ile Ile Gly Arg Ala Val Gly Met Lys Pro
 500 505 510
 Asp Asn Val Leu Asp Lys Phe Trp Pro Gln Met Thr Ser Glu Arg Ile
 515 520 525
 Ile Ser Arg Ser Thr Tyr His Asp Gly Thr Gln Glu Arg Ser Glu Leu
 530 535 540
 Val Glu Ile Leu Ser Asp Ile Val Ser Met Thr Arg
 545 550 555

<210> 10497

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 10497

Gln Ile Ile Asp Arg Pro Ser Glu His Leu Trp Ile Ser Leu Asn Gln
 1 5 10 15
 Ala Gly His Pro Val Lys Phe Glu Arg Asp Ile Ala Phe Phe Gly Pro
 20 25 30
 Gly Phe Glu Lys Leu Glu Asp Phe His Asp Phe Arg Ser Glu Val Lys
 35 40 45
 His Asp Pro Val Arg Tyr Gln Leu Ile Ile Ile Cys Leu Cys Gln Glu
 50 55 60
 Gln His Ile Ala Asp His Phe Gly His Pro Val Ile Leu Phe Lys Thr
 65 70 75 80
 Gly Ile Glu Asp Ile Leu Lys Phe Pro Leu Cys Ser Ile Leu Thr Gln
 85 90 95
 Cys Asp Ile Ser Leu Arg His Gln Ile Gly Asp Gly Arg Ser Asp Leu
 100 105 110
 Met Arg Asp Ile Gly Arg Glu Ile Gly Leu Ala Gly Lys Asp Ile Leu
 115 120 125
 Asn Leu Ser Asn His Met Ile Glu Arg Asp Asn Gln Leu Leu Gln Leu
 130 135 140
 Asn Gly Asn Ala Cys Pro Phe Gln Ser Arg Ile Lys Ile Leu Gly Gly
 145 150 155 160
 Asp Val Leu Asn Gly Ile Val Asp Ile Thr Lys Gly Gln Val Pro Leu
 165 170 175
 Asp Gly Gln Arg Phe Glu
 180

<210> 10498

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10498

Thr Gln Lys Lys Thr Val Pro Gln Phe Ile Phe Val Asn His Ile Thr
 1 5 10 15
 Pro Ser Tyr Leu Ile Ser Ser Ile Phe Leu Arg Ser Ile Ile Val Ile
 20 25 30
 Gly Ser Leu Ser Leu Tyr Phe Lys Ser Gln Pro Cys Pro Pro Ser Lys
 35 40 45
 Ala Ser Arg Leu Val Ser Asp Ile Glu Tyr Cys Pro
 50 55 60

<210> 10499

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 10499

Phe Pro Ala Val Met Leu Thr His Tyr Gly Asp Arg Glu Trp Leu Arg
 1 5 10 15
 Pro Val Leu Asp Lys Val Asn Thr Ser Thr Ala Val Pro Gly Ala Glu
 20 25 30
 Ala Gln Thr Pro Ala Ala Ile Ser Ser Pro Pro Asn Ser Leu Leu His
 35 40 45
 Leu Asn Asn Leu Phe Leu Pro Thr Cys Ile Thr Val Arg Val Ala Val
 50 55 60
 Val Tyr Arg His Pro Val Met Gln Ala Met Ala Tyr Lys Glu Ala Asn
 65 70 75 80
 Pro Leu Met Phe Val Arg Ile Ile Val Pro Met Leu Ala Arg Val Met
 85 90 95
 Asn Thr Asn Asn Ser Arg Cys Tyr Pro Trp Glu Asp Arg Lys Gln
 100 105 110

<210> 10500

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10500

Val Asn Ile Thr Ala Gly Asn Tyr Arg Cys Leu Leu Leu Ser Thr Ser
 1 5 10 15
 Gly Ile Ile Ile Asn Ala Thr Phe Ile Leu Pro Glu Cys Asn Phe Ser
 20 25 30
 Asp Cys Pro Tyr Met Glu Asn Gln Ser Tyr Ile Glu Ile Leu Gln Lys
 35 40 45
 Tyr Asn Asn Lys Ile Val Trp Lys Lys Asn Asn Val Pro Ala Asn Cys
 50 55 60
 Arg Gly Asp Asp Tyr Gln Ala Ser Met Arg Pro
 65 70 75

<210> 10501

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 10501

Val Val Ile Leu Arg Gln Phe Cys Pro Ala Ala Thr Ala Phe Phe Ala
 1 5 10 15
 Ile Arg Gln Ser Ile Met Gln Arg Lys Leu Ser Ile Lys Pro Gln Leu
 20 25 30
 Leu Ile Lys Arg Ile Glu Leu Phe Ala Gly Asn Ile Asp Lys Asn Lys
 35 40 45
 Phe Ser Ile Ser Pro Phe Lys Gly Ser Asp Leu Lys Ile Phe Glu Pro
 50 55 60
 Ser Ile Ile Asn Thr Gly Ser Gly Ser Ala Leu Asn Ile Asn Ile Lys
 65 70 75 80
 Trp Asp Tyr Pro Tyr Glu Leu Lys Met Arg Gln Leu Asn Glu Cys Tyr
 85 90 95
 Lys Ser Ile Asn Lys Glu Ala Lys Leu Glu His Glu Ile Asn Asp Lys
 100 105 110
 Leu Gly Val Arg Cys Leu Glu Ile Asn Thr Gly Glu Ile Val Leu Tyr
 115 120 125
 Pro Leu Thr Asn Thr Asp Leu Ile Asp Phe Met Ala Pro Ile Asn Val
 130 135 140
 Glu Lys Lys Glu Tyr Lys Thr Arg Ala Pro Phe Ser Ile Phe Asn Ile

```
<210> 10502
<211> 222
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10503
<211> 106
<212> PRT
<213> Enterobacter cloacae
```

```
<220>
<221> UNSURE
<222> (93)

<400> 10503
```

```

Arg Val Glu Arg Pro Met Ile Arg Cys Thr Phe His Leu Asn Asn Ser
1      5      10      15
Gln Leu Ser Thr Leu Ser Cys Pro Gly Val Gly Phe Phe Pro Ala Tyr
20      25      30
Ser Gly Asn Ala Gly Glu Asn Arg Asn Asn Pro Asp Lys Ile Ala Val
35      40      45
Ala Gly Ile Gly Pro Leu Pro Gly Lys Tyr Tyr Ile Val Met Arg
50      55      60
Pro Gly Ser Ser Ala Ala His Phe Thr Lys Ser Phe Thr Ser Ser Ile
65      70      75      80
Leu Ser Gly Ser Asn His Phe Lys Ser Phe Gly Ser Xaa Phe Thr Thr
85      90      95
Arg Pro Arg Thr Thr Ile Ser Pro Pro Ser
100      105

```

<210> 10504

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10504

```

Glu Ser Thr Ser Leu Ile Gln Asn Tyr Tyr Pro Asp Ile Ala Asp Glu
1      5      10      15
Ile Arg Arg Ile Ala Asp Asn Ile Pro Arg Arg Ser Arg Ala Ala Leu
20      25      30
Arg Glu Lys Leu Lys Asp Ala Asn Ala Lys Asn Lys Val Leu Gln Asp
35      40      45
Glu Ile Gln Gln Leu Gln Leu Arg Ile Ser Lys Gln Ala Thr Ile Asn
50      55      60
Glu Met Leu Asn Tyr Asn Leu Lys Asn Lys Pro Ser Arg Asn Lys
65      70      75      80

```

<210> 10505

<211> 396

<212> PRT

<213> Enterobacter cloacae

<400> 10505

```

Ser Gln Leu Ala His Phe Leu Ala Lys Thr Gly Cys Pro Arg Glu Ile
1      5      10      15
Phe Phe Pro His Leu Cys His Gln Gly Pro Ile Ile Pro Asn Lys Asn
20      25      30
Leu Asp Lys Tyr Glu Lys Cys Thr His Ser Tyr Lys Lys Phe Asp Ile
35      40      45
Pro Asn Leu Val Ala Asp Glu Asn Glu His Asp Met Ser Ser Gly Leu
50      55      60
Asp Arg Val Lys Thr Ser Ser Glu Asp Glu Met Ser Thr Glu His Val
65      70      75      80
Asp His Lys Thr Ile Ala Arg Phe Ala Glu Asp Lys Val Asn Leu Pro
85      90      95
Lys Val Lys Ala Asp Glu Phe Arg Glu Gln Ala Lys Arg Leu Gln Asn
100      105      110
Lys Leu Glu Gly Tyr Leu Ser Asp His Pro Asp Phe Ser Leu Lys Arg
115      120      125
Met Ile Pro Ser Gly Ser Leu Ala Lys Gly Thr Ala Leu Arg Ser Leu
130      135      140
Asn Asp Ile Asp Val Ala Val Tyr Ile Ser Gly Ser Asp Ala Pro Gln
145      150      155      160
Asp Leu Arg Glu Leu Leu Asp Tyr Leu Ala Asp Arg Leu Arg Lys Ala
165      170      175
Phe Pro Asn Phe Ser Pro Asp Gln Val Lys Pro Gln Thr Tyr Ser Val

```

180 185 190
 Thr Val Ser Phe Arg Gly Ser Gly Leu Asp Val Asp Ile Val Pro Val
 195 200 205
 Leu Tyr Ser Gly Leu Pro Asp Trp Arg Gly His Leu Ile Ser Gln Glu
 210 215 220
 Asp Gly Ser Leu Leu Glu Thr Ser Ile Pro Leu His Leu Asp Phe Ile
 225 230 235 240
 Lys Ala Arg Lys Arg Ala Ala Pro Lys His Phe Ala Gln Val Val Arg
 245 250 255
 Leu Ala Lys Tyr Trp Ala Arg Leu Met Lys Gln Glu Arg Pro Asn Phe
 260 265 270
 Arg Phe Lys Ser Phe Met Ile Glu Leu Ile Leu Ala Lys Leu Leu Asp
 275 280 285
 Asn Gly Val Asp Phe Ser Asn Tyr Pro Glu Ala Leu Gln Thr Phe Phe
 290 295 300
 Thr Tyr Leu Val Ser Thr Glu Leu Arg Glu Arg Ile Val Phe Glu Asp
 305 310 315 320
 Asn Tyr Pro Ala Ser Lys Ile Gly Lys Leu Ser Asp Leu Val Gln Ile
 325 330 335
 Ile Asp Pro Val Asn Pro Val Asn Asn Val Ala Arg Leu Tyr Thr Gln
 340 345 350
 Ser Asn Val Asp Ala Ile Ile Asp Ala Ala Met Asp Ala Gly Asp Ala
 355 360 365
 Ile Asp Ala Ala Phe Tyr Ala Pro Thr Lys Gln Leu Thr Ile Thr Tyr
 370 375 380
 Trp Gln Lys Val Phe Gly Ser Ser Phe Gln Gly
 385 390 395

<210> 10506

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 10506

Pro Ile Gly Arg Lys Phe Ser Val Leu His Ser Arg Gly Glu Ile Ile
 1 5 10 15
 Met Ser Ser Tyr Ser Tyr Thr Val Ala Glu Thr Gln Thr Phe Ser Val
 20 25 30
 Thr His Ala Arg His Met Ala Ala Lys Val Ala Thr Asp Leu Arg Arg
 35 40 45
 Met Gln Arg Phe Tyr Gly Tyr Pro Ser Asp Ala Asp Ile Glu Ala Tyr
 50 55 60
 Glu Glu Glu Leu Val Val Ile Leu Lys Ala Gly Tyr Leu Gly Glu Val
 65 70 75 80
 Ser Tyr Gly Phe Gln Lys Asn Asn Asn Trp Ile Glu Pro Thr Leu Arg
 85 90 95
 Tyr Thr Ala Gly Asp Leu Leu Gly Ser Gly Thr Asp Asp Asp Pro Gly
 100 105 110
 Lys Ile Arg Gln Gly Lys Asp Val Ser Gly Ala Ser Phe Tyr Ser Phe
 115 120 125
 Met Thr Tyr Ser Ser Lys Tyr Leu Asn Ala Thr Gln Ser Glu Lys Asp
 130 135 140
 Thr Ala Leu Lys Asp Leu Pro Phe Lys Arg Val Gly Ala Gln Ser Pro
 145 150 155 160
 Gly Ile Asn Gly Tyr Leu Glu Asn Asp Lys Thr Tyr Ser Ala Gly Gly
 165 170 175
 Arg Ser Leu Thr Arg Thr Ser Val Arg Asn Phe Val
 180 185

<210> 10507

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 10507

```

Ile Asn Glu Val Leu Ser Tyr Ser Ser Pro Ser Gly Ser Ser Asn Gly
1          5          10          15
Tyr Ser Ser Gly Gly Gly Ser Ser Ser Thr Arg Pro Arg Trp
20          25          30
Ser Arg Ala Gly Ser Ser Val Ile Tyr Thr Pro Ala Glu Val Arg Thr
35          40          45
His Thr Pro Ala Arg Glu Asn Val Glu Arg Arg Ala Ser Val Pro Asp
50          55          60
Leu Arg Asp Val Phe Leu Cys His Ala Trp Asp Asp Arg Lys Asp Ala
65          70          75          80
Ala Lys Glu Leu His Asp Gln Leu Glu Met Asn Gly Val Ser Val Trp
85          90          95
Phe Ser Glu Lys Asp Val Leu Leu Gly Ala Thr Leu Leu Arg Glu Ile
100         105         110
Asp Glu Gly Leu Ala Lys Ser Arg Val Gly Ile Val Leu Val Thr Pro
115         120         125
Ala Leu Leu Lys Arg Leu Ala Gly Gly Ile Ala Asp Lys Glu Leu
130         135         140
Ser Ala Leu Leu Ala Arg Asp Leu Leu Val Pro Ile Val His Asn Thr
145         150         155         160
Thr Tyr Glu Asp Leu Arg Glu Val Ser Pro Leu Leu Gly Ser Arg Ser
165         170         175
Gly Leu Ser Thr Ala Glu Asp Ser Met Ala Asn Ile Ala Ser Lys Leu
180         185         190
Ala Glu*Leu Val Thr Ile
195

```

<210> 10508

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 10508

```

Lys Phe Ile Lys Ile Phe Asp Ile Glu Ile Leu Thr Gln Ser Asn Phe
1          5          10          15
Ser Gly Phe Leu Glu Lys His Phe Arg Gln Ser Cys Val Trp Leu His
20          25          30
Leu Phe Leu Ser Asn Ser Asn Arg Asp Leu Ala Tyr Asn Leu Pro Ala
35          40          45
Ile Leu Lys Pro Gly Asn Tyr Val Lys His Arg Asp Leu Thr Gln Glu
50          55          60
Ile Leu Trp Asn Thr Leu Phe
65          70

```

<210> 10509

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10509

```

Glu Ile Ala Ala Ala Val Ser Gly Phe Glu Arg Pro Ser Ser Glu Met
1          5          10          15
Tyr Ser Thr Pro Pro Val Leu Asn Ile Pro Ser Leu Val Thr Ile Ser
20          25          30
Leu Asp Asp Thr Glu Phe Gly Leu Gly Asp Lys Ser Ser Phe Lys Gly
35          40          45
Phe Ser Met Ser Ile Ser Lys Thr Gly Ile Ile Pro Ala Val Ile Leu

```

60

<211> 87

<212> PRT

<213> Enterobacter cloacae

[illegible]

<211> 217

<212> PRT

<213> Enterobacter cloacae

Lys 1	Gly	Lys	Arg	Tyr 5	Leu	Cys	Ser	Ala	Val 10	Glu	Gln	Pro	Ser	Leu 15	Phe
Asn	Asn	Glu	Gln	Phe	Met	Ile	Thr	Phe 25	Phe	Arg	Arg	Ala	Gly 30	Leu	Gly
Thr	Lys	Leu	Ser	Leu	Leu	Thr	Gly 40	Ala	Ser	Val	Ala	Thr 45	Leu	Phe	Leu
Leu	Phe	Thr	Phe	Leu	Leu	Ser	His 55	Asn	Ala	Ser	Gln	Gln	Leu	Glu	Asp
Leu	Ala	Val	Glu	Asp	Leu	His	Asn 70	Gln	Ser	Thr	Gly 60	Met	Val	Asp	Met
Val	Glu	Met	Phe	Asn 85	Thr	Ser	Leu	Ser	Glu 90	Glu	Val	Glu	Ser	Tyr 95	Thr
Arg	Leu	Phe	Thr 100	Thr	Phe	Leu	Pro	Gln 105	Pro	Leu	Asn	Ser	Asp 110	Ser	Ser
Gln	Ser	Arg 115	Thr	Ile	Asn	Gly	Leu	Thr 120	Val	Pro	Leu	Leu 125	Lys	Gly	Gly
Glu	Thr	Glu	Leu	His	Glu	Asn 135	Asn	Thr	Leu	Ser	Asp 140	Asp	Phe	Leu	Ser
Arg	Thr	Gly	Ala	Ile 150	Ser	Thr	Leu	Phe	Val	Arg 155	Ser	Gly	Asn	Asp	Phe
Ile	Arg	Val	Ala	Thr 165	Ser	Leu	Arg	Lys	Glu 170	Asn	Gly	Asp	Arg	Ala	Ile
Gly	Thr	Val	Leu 180	Asp	Thr	Thr	Ser	Pro 185	Ala	Phe	Ala	Ala	Val 190	Thr	Lys
Gly	Glu	Val	Tyr 195	Arg	Gly	Leu	Ala	Pro 200	Leu	Phe	Gly	Asn 205	Arg	Tyr	Gln
Gln	Pro	Gln	Glu	Arg	Val	Cys 215	Pro	Lys							

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 10512

```

Thr Glu Ala Gln Ser Pro Asp His Ala Ser Gly Asp Val Ile Phe Ile
1          5          10          15
Leu Val Ile Ser Arg Tyr Phe Lys Tyr His Leu Phe Lys Ser Ile Leu
          20          25          30
Ile Gly Ile Ala His Asp Gly Ser Ala Thr Ala Ser Asn Phe Thr Gly
          35          40          45
Thr Pro Gly Ala Asn Arg Val Tyr His Arg Arg Glu Ser Asp Arg Thr
          50          55          60
Phe Arg Asp Leu Pro Arg Tyr Arg Ala Thr Gly Tyr Gln Gln Ala Gly
65          70          75          80

```

<210> 10513

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 10513

```

Gly Ser Lys Arg Ser Met Pro Met Lys Thr Gln Arg Val Ile Lys Val
1          5          10          15
Ala Thr Phe Leu Ala Phe Cys Leu Pro Gly Leu Thr Leu Ala Glu Asp
          20          25          30
Cys Gln Ile Thr Leu Ser Gln Pro Ile Val Asp Tyr Lys Gln Leu Lys
          35          40          45
Arg Asp Asp Ile Val Thr Ser Gln Gln Ser Trp His Lys Leu Pro Glu
          50          55          60
Arg Glu Val Thr Val Asn Val Phe Cys Pro Asp Lys Gln Lys Leu Ala
65          70          75          80
Val Leu Leu Gln Gly Asn Ala Gly Glu Lys Gly Arg Phe Arg Phe Gly
          85          90          95
Gln Asn Gly Gly Val Ala Val Lys Ile Asp Asp Met Asn Val Asp Gly
          100          105          110
Lys Ser Tyr Thr Val Gly Lys Thr Val Asp Gln Leu Asn Phe Thr Pro
          115          120          125
Glu Ser Gly Ser Pro Ser Pro Phe Tyr Leu Arg Asn Asn Glu Ala Val
          130          135          140
Val Ala Val Glu Asn Asn Gln Ala Val Thr Gly Gln Gln Met Thr Phe
145          150          155          160
Thr Ala Thr Ile Phe Pro Val Leu Asn Glu Ser Ala Phe Ser Asn Asn
          165          170          175
Ala Asp Gln Thr Thr Leu Glu Ser Asp Phe Ser Trp Lys Ile Leu Gln
          180          185          190
Asn Asn Pro
          195

```

<210> 10514

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10514

```

Ile Ile Lys Ser Gly Ile Thr Gln Gly Tyr Pro Leu Lys Leu Phe Ile
1          5          10          15
Ala Phe Ile Ile Val Thr Ile Leu Leu Glu Ile Lys Lys Asn Glu Lys
          20          25          30
Cys Ser Leu Ile Phe Leu Phe Phe Asp Gln Phe Lys Lys Tyr Ile Ile
          35          40          45

```

Phe Ser Lys Lys Lys Arg Pro Gly Ile Asn Leu Thr Val Lys Ile Lys
 50 55 60
 Ile Glu Leu Ala Leu Phe Tyr Asn Ala
 65 70

<210> 10515

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 10515

Arg Leu Thr Gly Gly Ile Glu Gly Ile Glu Asn Phe Asn Gly Met Arg
 1 5 10 15
 Gln Glu Leu Phe Ala His Glu Arg Lys Leu Ser Pro Gln Thr Ala Ala
 20 25 30
 Ile Glu Gln Ala Gly Ser Gly Lys Leu Phe Gln Phe Val Gln Arg Phe
 35 40 45
 Gly Glu Cys Arg Leu Thr Glu Val Lys Gly Phe Ser Arg Ser Pro Gln
 50 55 60
 Arg Ser Leu Leu Ser Asp Gly His Lys Ser Met Gln Met Ala Gln Ala
 65 70 75 80
 Tyr Ala Leu Thr Glu Gln Thr Ile Phe Phe His Arg Arg Cys
 85 90 95

<210> 10516

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10516

Arg Gln Asn Ala Ser Leu Val Glu Glu Ala Ser Ala Ala Ala Ser
 1 5 10 15
 Leu Glu Glu Gln Gly Ala Arg Leu Thr Glu Ala Val Gly Ala Phe Arg
 20 25 30
 Leu Asn Gly Ala Arg Ala Gly Arg Ala Pro Ala Ala Ala Asn Ala Ala
 35 40 45
 Lys Pro Ser Pro Leu Thr Pro Ala Ala Val Val Ser Gly Asp Asn Trp
 50 55 60
 Glu Thr Phe
 65

<210> 10517

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 10517

Trp Ala Ala Phe Asp Ala Val Tyr Asp Leu Ile Gly Gly Glu Ile Lys
 1 5 10 15
 Lys Phe Phe Ile Leu Pro Pro Leu Met Asp Ala Val Val Thr Pro Ser
 20 25 30
 Cys Lys Gln Pro Gln Cys Val Asp Leu Lys Lys Ile Lys Ser Gly Gln
 35 40 45
 Leu Lys Lys His Val Leu Pro Leu Leu Gln Val His Asn His Met Leu
 50 55 60
 Thr Glu Phe Leu Val Glu Thr Phe Arg Trp Val Lys Leu Leu Val Ser
 65 70 75 80
 Thr Trp Val Leu Pro Thr Leu Val
 85

<210> 10518

<211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 10518

Ser Ala Ser Lys Glu Glu Lys Gln Ser Lys Lys Lys Glu Gly Ser
 1 5 10 15
 Ser Asp Glu Lys Glu Lys Lys Ala Glu Arg Glu Lys Glu Lys Glu Lys
 20 25 30
 Asp Thr Gln Lys Glu Lys Ser Glu Gly Glu Glu Ala Ala Asp Pro Asp
 35 40 45
 Asn Pro Glu Lys Glu Glu Arg Glu Glu Glu Thr Ala Lys Asp Thr Glu
 50 55 60
 Ser Gln Val
 65

<210> 10519

<211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 10519

Val Asn Gln His His Glu Leu Gln Lys Ser Asp Pro Gln Thr Lys Asp
 1 5 10 15
 Lys Lys Glu Arg Glu Glu Ala Val Pro Asn Leu Tyr Lys Glu Thr Ile
 20 25 30
 Lys Ala Lys Gln Pro Gly Lys Glu Glu Lys Ala Asn Arg Glu Asp Pro
 35 40 45
 Lys Ile Gln Gln Thr Ile Arg Glu Gly Ser Leu Glu Gly Lys Arg Lys
 50 55 60
 Glu Arg Asp Lys Asp Asp Gln Arg Lys Ile Gln Ile Gly Asp Asn Cys
 65 70 75 80
 Val Phe Ser His Lys Ala Val Trp Gln Gly Tyr Leu Cys
 85 90

<210> 10520

<211> 209
 <212> PRT
 <213> Enterobacter cloacae

<400> 10520

Leu Ser Val Val Ser Asn Arg Gly Gly Arg Ser Gly Gly Leu Lys Gly
 1 5 10 15
 Phe Gly Ile Met Ser Leu Ser Ser Leu Tyr Ser Ser Ser Asp Ala Glu
 20 25 30
 Tyr Ile Gln Val Asn Gln Tyr Leu Val Phe Val Pro Asn Pro Lys Lys
 35 40 45
 Leu Pro Tyr Asn Asp Glu Ser Leu Val Arg Glu Gly Ala Lys Tyr Val
 50 55 60
 Phe Glu His Thr Lys Ala Thr Gln Ala Ser Phe Gly Tyr Asn Pro Glu
 65 70 75 80
 Lys Gln Lys Ala Ala Leu Ala Thr Cys Lys Ile Asp Met Ala Val Val
 85 90 95
 Asn Lys Trp Ser Thr Cys Asp Leu Pro Ser Lys Pro Asp Ala Asp Val
 100 105 110
 Phe Pro Thr Asp Ser Met Tyr Ser Phe Gln Ala Ile Arg Pro Ala Thr
 115 120 125
 Gly Thr Glu Ile Pro Glu Leu Asn Leu Pro Ala Gly Asp Tyr Ala Val
 130 135 140
 Ile Arg Tyr Val Phe Ile Pro Phe Lys Gly Asn Glu Thr Ser Ala Asp
 145 150 155 160

Phe Ser Gly Ile Ile Phe Arg Ser Asp Ser Pro Asn Thr Thr Thr Pro
 165 170 175
 Gly Gly Val Ala Ala Ser Ile Asn Gly Lys Asp Tyr Tyr Leu Phe Thr
 180 185 190
 Gly Glu Tyr Gly Lys Lys Gly Phe Pro Glu Lys Thr Leu Lys Ala Lys
 195 200 205

<210> 10521

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 10521

Phe Gln Leu Ala Asn Thr Val Asp Pro Asp Gly Asp Ile Ser Pro Ser
 1 5 10 15
 Glu Gly Ile Ser Arg Tyr Leu Thr Glu Asp Arg Pro Met His Ala Asp
 20 25 30
 Val Cys Thr Leu Lys Thr Pro Leu Asp Thr Leu Ser Trp Leu Cys Leu
 35 40 45
 Leu Glu Ser Glu Leu Leu Ser Ile Arg Ala Phe Gln Arg Leu Asp Leu
 50 55 60
 His Thr Glu Arg Asp Glu Pro Asn Glu Leu Thr Tyr Leu Glu Asp Ala
 65 70 75 80
 Ile Ile Asn Ala Gly Thr Ala Tyr Gly Trp Phe Val Cys Phe Leu Arg
 85 90 95
 Asp Gly Asp Ile Pro Pro Leu Pro Ala Thr Ala Arg Glu Ile Leu Cys
 100 105 110
 Thr Leu Asp Ser Leu Gly Lys Glu Ile Asn Arg Pro Phe Trp Glu Lys
 115 120 125
 Ala Val Ala Arg Gly Gln Asp Glu Ala Cys Gly Asp Lys Ala Ile Ala
 130 135 140
 Ala Leu Glu Met Met
 145 150

<210> 10522

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 10522

Ile Pro Leu Phe Phe Phe Ala Glu Asp Leu Ser Met Lys Asp Leu Ser
 1 5 10 15
 Ser Ser Pro Ala Ser Met Ser Val Val Tyr Thr Ile Glu His Val Ser
 20 25 30
 Thr Val Pro Leu Arg His Trp His Ala Phe Val Leu Ala Val Thr Glu
 35 40 45
 Thr Phe Trp Gln Leu Pro Val Arg Leu Arg Pro Gly Asn Met Tyr Leu
 50 55 60
 Pro Ser Leu Asn Arg Ala Ala Asp Leu Phe Pro Val Ala Asp Val Met
 65 70 75 80
 Ala Phe Cys Gly Asp Ser Gly Gly Ser Phe Trp Pro Val Asn Met Thr
 85 90 95
 Ile Glu Arg Glu Arg Ser Asn Asn Thr Leu Ser Ile Gln Glu Leu Asp
 100 105 110
 Phe Gln His Gln Pro Cys Asp Phe Phe Ala Arg Val Val Met Val Leu
 115 120 125
 Leu His Asn Leu Cys Pro Gly Ser Phe Arg Ile His Ser Ser Asp Glu
 130 135 140
 Gly Arg Ser Trp Ala Ile Pro Leu Arg Trp Ile Glu Arg His Ile Gly

```

145          150          155          160
Leu Pro Glu Gln Ser Ser Leu Thr Thr Pro Gln Pro Val Leu Gln Thr
165
Pro Val Ser Glu Gly Ala Phe Asp Ser Leu Leu Gln Leu Leu Ser
180
Gly Gly Glu Arg Val Leu Ser Ser Glu Asp Trp Asn Ala Phe Val Leu
195
Ala Glu Phe His Leu Tyr Glu Leu Lys Arg Val Thr Glu Arg Thr Asp
210
Ala Pro
225

```

<210> 10523

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 10523

```

Leu Ser Pro Ser Arg Glu Asp Thr Ala Pro His Gly Ala Val Ser Ser
1      5      10
Phe Phe Tyr Glu Arg Gly Val Phe Thr Met Ser Glu Trp Cys His Asn
20      25      30
Arg Leu Glu Ile Thr Gly Lys Pro Val Cys Ile Asp Val Met Leu Gln
35      40      45
Trp Ile Asn Gly Thr Asp Ala Pro Arg His Arg His Ala Val Gln Gln
50      55      60
Ser Ile Gln Leu Phe Leu Ala Gly Ala Ala Gly Ile Leu Lys Pro Val
65      70      75      80
Arg Thr Thr Ser Tyr Pro Pro Phe Gln Gly Leu Val Arg Ala Gly Thr
85      90      95
Gly Leu Ser Thr Ala Ala Asn Gln Ala Phe Glu Asn Trp Leu Ala Leu
100      105      110
Leu Leu Thr Asp Ala Val Leu Asp Ala Glu Thr Ile Arg Val Ile Asp
115      120      125
Arg Leu Tyr His Gln Ser Gly Leu Gly Ala Leu Lys Trp Glu Asn Ile
130      135      140
Pro Val Ser Ser Arg Asp Val Met Ala Glu Leu Ile Ile Arg Gln Tyr
145      150      155      160
Thr Asp Trp Phe Gly Leu Val Ser Ala Gly Asp Glu Ser Asp Ala Ala
165      170      175
Ala Ala Trp Glu Arg Leu Ser Gln Tyr Pro Glu Arg Ser Gln Pro Cys
180      185      190
Asp Met Leu Ala Val Ile Pro Ser Arg Leu Ala Ala Glu Leu Asn Gly
195      200      205
Ala Gly Gly Leu Met Ser Gly Val Ser Thr Thr Thr Ser Leu Tyr Cys
210      215      220
Arg Gln Tyr Gly Met Glu Trp Pro Ala Gly His Asn Val Ser Trp Gln
225      230      235      240
Arg His Thr Pro Asn Ser Leu Thr Leu Gln Met Asp Thr Pro Trp Leu
245      250      255
Pro Pro Ser Gly Glu Val Val Gly Glu Ile Ser Ala Val Phe Asp Cys
260      265      270
Glu Val Arg His Ser Tyr Ser Glu Pro Val Ser Gly Leu Ser Gly Tyr
275      280      285
Asp Cys Tyr Asp Gly Gly Glu His Val Asp Gly His Lys Gly Ala Ser
290      295      300
Gly Ala Pro Gln Pro Gly Gln Val Leu Tyr Leu Val Ser Asp Glu Pro
305      310      315      320
Asp Ser Pro Ala Gln Asp Ala Thr Ser Tyr Arg Glu Val Arg Gly
325      330      335

```

<210> 10524
 <211> 76
 <212> PRT
 <213> Enterobacter cloacae

<400> 10524
 Trp Leu Gln Lys Gln His Ile Ser Leu Leu Ile Phe Arg Ala Asn Gly
 1 5 10 15
 Ala Tyr Val Asn Cys Gly Ile Lys Trp Val Thr His Ser Met Leu Arg
 20 25 30
 Ala Val Asn Asn Met Met Leu Asp Met Pro Ala Ala Ile Ala Arg Lys
 35 40 45
 Tyr Tyr Gln Asp Arg Leu Met Arg Gln Ile Lys Arg Lys Lys Glu Lys
 50 55 60
 Asp Arg Glu Arg Leu Ala His Lys Glu Lys Ile
 65 70 75

<210> 10525
 <211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 10525
 Phe Lys Ile Leu Ser Arg Arg Asn Tyr Leu Gln Ser Met Ile Pro Arg
 1 5 10 15
 Arg Thr Leu Lys Ala His Phe Leu Pro Trp Gly Ser Ala Ile Asp Asp
 20 25 30
 Thr Pro Ser Pro Ala Arg Tyr Pro Leu Ser Arg Ala Ala Arg Asn Gly
 35 40 45
 Met Ile Lys Tyr Cys Ala Asn Leu Ile Ser Pro Gly Val Tyr Pro Asp
 50 55 60
 Phe Cys
 65

<210> 10526
 <211> 397
 <212> PRT
 <213> Enterobacter cloacae

<400> 10526
 His Ala Phe Val His Val Gln Gln Leu Lys Arg Ser Arg Arg Met Ser
 1 5 10 15
 Arg Arg Gly Glu Arg Phe Ser Arg Met His Leu Pro Leu Pro Gln Leu
 20 25 30
 Asn His Ile Arg Ala Cys Gly Ala Cys Gln Gln Ser Gly Val Thr Ala
 35 40 45
 Leu Cys Ala Leu Pro Gln Asn Arg Asp Arg Leu Phe Pro Asn Asn Val
 50 55 60
 Tyr Leu Arg Leu Ala Gly Asp Val Asn Asp Ile Cys His Arg Asp Ala
 65 70 75 80
 Lys Arg Gly Gly Gln Phe Thr Gln Asn Gly Asn Ala Gly Val Gly Ser
 85 90 95
 Pro Phe Phe Asp Leu Tyr Gln His Ala Phe Ala Asp Ala Gly Ala Ala
 100 105 110
 Arg Lys Leu Val Gln Arg Gln Phe Phe Leu Phe Pro Pro Ala Ala Asp
 115 120 125
 Thr Val Arg Asp Gly Gln Ala Tyr Leu Gly Asn Ile Gly Thr Arg Ile
 130 135 140
 Gly His Tyr Ile Asp Phe Ile Ser His Trp Ser Leu Pro Trp Tyr Lys
 145 150 155 160
 Thr Val Asn Thr Gly Leu Phe Met Ser Leu Val Thr Pro Ser Ile Asp

```

          165          170          175
Ser Arg Leu Val Gly Ile Ala Pro Gly Phe Arg Ala Leu Ser Ile Leu
          180          185          190
Val Glu Ala Ala Pro Ile Thr Gln Pro Glu Val Ala Pro Ala Ala Leu
          195          200          205
Ala Gln Ala Cys Gln Gln Met Leu Asn Asp Asp Val Pro Trp Ala Glu
          210          215          220
Asn His Leu Ala Ala Trp Asp Glu Val Phe Lys Ala Phe Gly Ala Lys
          225          230          235
Pro Lys Arg Thr Pro Cys Ser Ala Ser Ala Leu Arg Lys Arg Val Met
          245          250          255
Arg Asp Gly Ser Leu Pro Pro Leu Asp Pro Val Val Asp Ile Tyr Asn
          260          265          270
Ala Ile Ser Ile Arg Tyr Ala Ile Pro Val Gly Gly Glu Asn Leu Ala
          275          280          285
Ala Tyr Ser Gly Ala Pro Arg Leu Thr Leu Ala Asp Gly Ser Glu Pro
          290          295          300
Phe Asp Thr Val Lys Glu Gly Glu Pro Val Val Glu Asn Pro Glu Pro
          305          310          315
Gly Glu Val Ile Trp Arg Asp Asp Leu Gly Ile Thr Cys Arg Arg Trp
          325          330          335
Asn Trp Arg Gln Gly Ile Arg Thr Arg Leu Asp Ser Gln Ala Gln Ser
          340          345          350
Met Trp Phe Ile Leu Glu Ser Leu Pro Ser Met Pro Leu Ala Ala Leu
          355          360          365
Gln Glu Ala Gly Asp Glu Leu Val Ser Asn Leu Gln Lys Leu Met Pro
          370          375          380
Gly Ala Thr Ala Arg Ile Gln Leu Leu Glu Leu Ala
          385          390          395

```

<210> 10527

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10527

```

Gln Pro Ala Ser Arg Leu Pro Ala Ile Pro Glu Ile Arg His Phe Val
1          5          10          15
Arg His Leu Ser Val Ser Asn Val Ser Trp Gln Ile Ala Val Pro Asn
          20          25          30
Asn Arg Thr Ala Leu Ser Ala Val Phe Phe Thr Ser His Arg Ile Leu
          35          40          45
Leu Gln Val Asn Arg Leu Phe Leu His His Tyr His Pro Val Asn Gly
          50          55          60
Ser Ala Arg Thr Leu Thr His Gly
65          70

```

<210> 10528

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 10528

```

Gly Ala Leu Ile Phe Ile Gly Gln Ile Met Pro His Thr Ser Ser Trp
1          5          10          15
Trp Gly Leu Met Leu Glu Leu Tyr Arg Ser His Lys Thr Ser Phe Asp
          20          25          30
Ile Phe Leu Leu Ile Val Leu Gly Val Ile Val Arg Val Phe Tyr Trp
          35          40          45
Gly Gly Lys Leu Arg Glu Cys Cys Gly Asp Ile Leu Ile Gly Thr Val
          50          55          60

```

Ile Met Thr Phe Ala Ala Ala His Leu Pro Asn Val Met Ile Ala Ile
 65 70 75 80
 Pro Gln Ile Gly Ser Val Lys Phe Ser His Asn Glu Ile Ala Phe Val
 85 90 95
 Ile Gly Met Leu Gly Tyr Lys Gly Ile Lys Ala Val Ile Phe Leu Val
 100 105 110
 Leu Lys Asn Arg Phe Gly Ile Asp Leu Pro Ala Arg Ile Ala Gln Arg
 115 120 125
 Lys Asp Asn Val
 130

<210> 10529

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 10529

Pro Ala His Ala Gly Phe Phe Met Glu Gln Thr Met Thr Asp Arg Cys
 1 5 10 15
 Lys Trp Val Ala Thr Ala Arg Lys Tyr Ile Gly Glu Ala Glu Val His
 20 25 30
 Gly Pro Lys His Asn Pro Leu Ile Leu Gln Met Trp Arg Asp Ile Lys
 35 40 45
 Arg Gly Gly Ile Lys Asp Asp Glu Thr Pro Trp Cys Ala Ala Phe Val
 50 55 60
 Gly Ser Val Leu Glu Gln Asn Gly Ile Gln Ser Thr Arg Phe Glu Ser
 65 70 75 80
 Ala Arg Ser Tyr Leu Asp Trp Gly Ile Glu Leu Gln Glu Pro Thr Tyr
 85 90 95
 Gly Cys Val Ala Val Leu Thr Arg Asp Gly Gly Gly His Val Gly Phe
 100 105 110
 Val Val Gly Gln Asn Lys Ala Gly Asp Leu Met Ile Leu Gly Gly Asn
 115 120 125
 Gln Ser Asp Ala Val Asn Ile Lys Ala Phe Ser Arg Gln Arg Val Thr
 130 135 140
 Ser Tyr Arg Trp Pro Arg Gly Gln Ser Ser Val Pro Gln Ser Leu Pro
 145 150 155 160
 Val Met Ser Ala Glu His Ser Thr Ser Glu Ala
 165 170

<210> 10530

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 10530

Ser Gly Arg Gly Arg Val Ala His Arg Cys Lys Ser Arg Leu Arg Ala
 1 5 10 15
 Met Ser Cys Tyr Asp Asp Asp Leu Asn Ala Gly Asp Glu Gln Met Leu
 20 25 30
 Glu Ala Phe Gly Arg Pro Val Arg Leu Pro Asn Arg Ala Asp Pro Ile
 35 40 45
 Ile Ala Ile Phe Asn Glu Pro Tyr Ala Arg Thr Asp Leu Pro Ser Ser
 50 55 60
 Gly Gly Gly Phe Ile Thr Gly Thr Val Thr Ser Ile Thr Val Lys Ser
 65 70 75 80
 Gly Ser Val Asp Gly Ile Ala Arg Arg Asp Val Ile Gln Gly Thr Lys
 85 90 95
 Lys Ala Arg Asn Trp Asp Glu Lys Arg Lys Pro Trp Phe Trp Gly Gln
 100 105 110
 Leu Glu Leu Asn Tyr Phe Leu Glu Ser Ser Pro Cys Pro Asp Gly Ser

115

120

125

<210> 10531

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 10531

```

Thr Ala Gly Asn Asn Phe Leu Phe His Leu Gly Tyr Thr Gln Met Gln
1      5      10      15
Val Lys Ser Leu Gly Phe Ser Ile Thr Asn Asp Asn Glu Asn Ile Lys
20      25      30
Thr Ile Asp Val Met Asn Glu Phe Ile Lys Ser Ser Ser Arg Gln Tyr
35      40      45
Asn Arg Ala Asp Tyr Thr Arg Arg Phe Leu Met Ser Asp Val Asn Asp
50      55      60
Phe Tyr Tyr Gly Leu Val Val Thr Phe Lys Asn Gln Lys Lys Asn Cys
65      70      75      80
Met Ser Gln Phe Ile Asp Gly Lys Phe Lys Leu Lys Val Glu Glu Leu
85      90      95
Gln Gly Asp Glu Lys Leu Val Thr Phe Asn Leu Phe Leu Leu Asn Lys
100      105      110
Thr Asn Leu Arg Gly Leu Tyr Met Ser His His Gly Ser Cys Ser Leu
115      120      125
Asn Thr Leu Phe Ser His Phe Gln Thr Val Ser Asn Glu Phe Ile Arg
130      135      140
Lys Gln Asn Ala Ala Asp Ile Glu Lys Leu Gly Asp Asn Pro Lys Gln
145      150      155      160
Lys Glu Val Thr Ala Val Asn Lys Lys Tyr Lys Lys Arg Phe Ser Phe
165      170      175
Ser Ile Met Thr Thr Lys Glu Asp Ile Lys Ser Ile Leu Gly Gln Phe
180      185      190
Lys Glu Ile Lys Lys Ala Ser Phe Lys Phe Asp Tyr Ile Asp Phe Lys
195      200      205
Gly Gly Ala Leu Thr Pro Leu Glu Ala Phe Ala Asn Ser Thr Thr Ile
210      215      220
Asp Met Ser Ile Asn Pro Asp Asp Lys Tyr Lys Val Gly Ala Leu Ser
225      230      235      240
Gln Thr Met Ser Asp Thr Phe Glu Ala Met Lys Gly Gly Ile Ser Lys
245      250      255
Ala Arg Val Thr Ala Val Asp His Gly Gly Ile Glu Lys Ile Ile Asp
260      265      270
Phe Met Asp Cys Pro Ala Phe Phe Glu Ser Tyr Asp Phe Asp Val Ile
275      280      285
Ala Glu Lys Ile Asn Gly Leu Thr Asn Asp Asn Tyr Thr Ser Asn Pro
290      295      300
Val Phe Asp Met Ile Lys Asp Glu Ile Leu Asn Gly Thr Asn Lys Asn
305      310      315      320
Ala Phe Val

```

<210> 10532

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10532

```

Met Asn Ala Asp Ile Tyr Ile Tyr Leu Leu Arg Arg Ser Lys Met Ala
1      5      10      15
Asp Ala Ala Phe Thr Leu Pro Lys Gly Val Tyr Gln Lys His Lys Glu
20      25      30

```

```
<210> 10533
<211> 79
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10534
<211> 95
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10535
<211> 67
<212> PRT
<213> Enterobacter cloacae
```

<400> 10535															
Arg	His	Leu	Arg	Gly	Glu	Asp	Arg	Asp	Thr	Leu	Arg	Arg	Met	Ala	Ala
1			5						10					15	
Glu	Leu	Asn	Val	Pro	Leu	Asn	Tyr	Phe	Phe	Cys	Asp	Asp	Gln	Thr	Thr
			20					25					30		
Ala	Glu	Leu	Ala	Leu	Leu	Ile	Ser	Arg	Met	Thr	Glu	Glu	Arg	Arg	Ser
			35				40					45			
Lys	Leu	Ile	Glu	Ala	Leu	Lys	Thr	Ser	Ser	Gly	Asp	Asn	Thr	Ala	Asp
	50					55					60				

Lys Lys
65

<210> 10536

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10536

```
Arg Leu Asp Pro Met Arg Ser Phe Ala Ser Pro Leu Asn Thr Asn Ile
1          5          10          15
Ala Tyr Ala Lys Lys Ile Ile Trp Gln Ser Phe Ile Pro Gln Thr Phe
          20          25          30
Ala Glu Val Arg Val Ile Tyr Met Ser Phe Asp Gln Gly Ile Leu Ser
          35          40          45
Glu Ile Glu Cys Leu Asn Arg Thr Glu Ser Ser Asp Asp Gln
          50          55          60
```

<210> 10537

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 10537

```
Lys Gln Arg Gly Arg Lys Leu Met Arg Gly Lys Glu Leu Asp Thr Gln
1          5          10          15
Ile Glu His Glu Leu Gln Leu Met Leu Ile Glu Gly Phe Asp Lys Ser
          20          25          30
Pro Ile Ser Ala Ile Asn Leu His Ala Arg Leu Lys Ser Lys Gly Ile
          35          40          45
Ile Asn Gly Gly Leu Ser Thr Leu Ser Asn Ile Glu Arg Arg Arg Leu
          50          55          60
Ile Ala Ala Tyr Val Asp Gln Gln Leu Ser Pro Leu Asn Leu Arg Pro
65          70          75          80
Lys Glu Lys Gln Gln Tyr Val Asn Arg Lys Thr Arg Gln Ala Leu Leu
          85          90          95
Gly Arg Asn Gln Gln Leu Gln Glu Glu Asn Lys Glu Leu Arg Glu Gln
          100          105          110
Leu Ala Gln Asn Thr Leu Ser Leu Ile Glu Ile Val Lys Ala Val Lys
          115          120          125
Ile Asn Thr Val Ile Pro Val Glu Ser Leu Leu Ala Pro His Leu Ile
          130          135          140
Met Glu Leu His Lys Arg Lys Lys Asp Gln
145          150          155
```

<210> 10538

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 10538

```
Val Ile Leu Asn Asp Ser Glu Val Ser Val Lys Pro Val Ala Ile Gln
1          5          10          15
Tyr Ile Glu Asp Asp Ile Leu Asp Ala Arg Ala Phe Tyr Ser Ile Leu
          20          25          30
Phe Gly Leu Lys Ile Leu Cys Cys Glu Glu Phe Pro Gly Phe Thr Leu
          35          40          45
Glu Asp Tyr Glu Asp Leu Glu Phe Ile Pro Arg Pro Asn Ala Phe Asn
          50          55          60
Trp Glu Ile Tyr Gln Asp Ile Asp Asn Ile Leu Glu Pro Leu Glu Lys
65          70          75          80
```

Ser Met Ile Thr Lys Gly Leu Phe Glu Ile Ala Thr Gly Leu Ala Arg
 85 90 95
 Gly Lys Thr Tyr Asp Ile Lys Glu Leu Lys His Thr Ala Val Leu Ala
 100 105 110
 Leu Ser Tyr Ala Thr Gly Ala Arg Pro Val Gln Leu Ala Lys Leu Ser
 115 120 125
 Val Arg Asp Leu Arg Ile Asp Thr Cys Asp Thr His Thr Gly Leu Ile
 130 135 140
 Arg Tyr Ser Ile Leu Leu Pro Tyr Val Lys Gln Arg Arg Leu Thr Thr
 145 150 155 160
 Glu Arg Leu Leu Leu Ala Ile Pro Pro Glu Ile Gly Ala Leu Ile Lys
 165 170 175
 His Tyr Val Asp Lys Ala Gln Leu Leu Ser His Asp Arg Met Phe Glu
 180 185 190
 Met Gly Val Ser Ala Pro Ala Phe Val Ser Gln Ser Ile Ser Gln Ala
 195 200 205
 Ile Leu Asn Phe Ser Pro Pro Glu Tyr Gln Thr Ala Val Gly Arg Gly
 210 215 220
 Glu Ala Ala Pro Pro Ser Ile Thr Ser Thr Asp Leu Arg His Asn Val
 225 230 235 240
 Gly His Ser Leu Ala Met Gln Gly Ala Ser Ala Glu Glu Ile Ala His
 245 250 255
 Ile Leu Gly His Ser Ser Leu Val Val Ala Lys His Tyr Ile Arg Ala
 260 265 270
 Thr Pro Ala Leu Ala Leu Ile Arg Ala Lys Ala Leu Gly Ser Asn Pro
 275 280 285
 Val Trp Gln Asn Met Val Ala Met Met Leu Thr Gly Lys Leu Val Pro
 290 295 300
 Ser Lys Glu Trp Glu Gly Arg Arg Val Val Gly Met Val Gly Asp Arg
 305 310 315 320
 Leu His Tyr Glu Ile Gly Gly Cys Ala Arg Thr Asp Asp Glu Cys Pro
 325 330 335
 Phe Cys Glu Val Arg Cys Cys Tyr Gly Cys Leu Tyr Tyr Arg Pro Phe
 340 345 350
 Leu Asp Gly His His Gln Gly Val Leu Asn Ser Val Ser Lys Glu Val
 355 360 365
 Asp Glu Leu Ile Ala Val Ser Asp Ser Val Gly Asn Ala Leu Asn Pro
 370 375 380
 Leu Ile Ser Val His Glu Thr Thr Gln Ile Glu Ile Lys Ser Val Ile
 385 390 395 400
 Ala Arg Cys His Leu His Asn Val Arg Gly Cys Gly Lys
 405 410

<210> 10539

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 10539

Arg Ala Leu Ser Lys Lys Gln His Lys Val Ser Thr Arg Ser Leu Phe
 1 5 10 15
 Asp Thr Arg Thr Gln Val Arg Leu Gln Leu Ser Arg Ser Val His Lys
 20 25 30
 Thr Leu Ala Ser Ala Lys Glu Ile Leu Gln Gly Arg Gly Val Asp Ser
 35 40 45
 Val Ser Ile Glu Asp Leu Val Arg Ala Cys Leu Glu Glu Asn Gln Pro
 50 55 60
 Ile Asp Leu Ala Ser Leu Tyr Leu Glu Asn Leu Leu Lys Gln Lys Gly
 65 70 75 80
 Thr Ser Ile Cys Asp Phe
 85

<210> 10540
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 10540
 Trp Trp Ile Val Phe Cys Phe Thr Ile Pro Asn Leu Arg Lys Lys Gln
 1 5 10 15
 Lys Thr Lys Leu Trp Leu Ser Leu Asn Leu Asn Arg Leu Lys Glu
 20 25 30
 Lys Gly Val Lys Met Glu Leu Gly Ile Met Val Cys Ile Val Leu Leu
 35 40 45
 Leu Ser Val Ala Ala Ala Trp Ile Ser Asn Lys Thr Val Asp Leu Leu
 50 55 60
 Glu Arg Phe Tyr Phe Lys Arg Pro Leu Ser Met Glu Tyr Ala Ala Trp
 65 70 75 80
 Leu Arg Val Met Cys Ala Gly Leu Leu Leu Val Phe Ile Gln Val Ala
 85 90 95
 Pro Gln Phe Thr Leu Leu Tyr Thr Leu Lys Leu Val Thr Leu Ile Asn
 100 105 110
 Leu Gly Ile Gln Thr Met Lys Leu Asn Gly Val Tyr Lys Tyr Lys Arg
 115 120 125
 Thr Gly Ile Leu Pro Pro Gly Gly Ala Leu Ser Asn Leu Thr Arg Leu
 130 135 140
 Asn Pro Phe Lys Lys Lys
 145 150

<210> 10541
 <211> 180
 <212> PRT
 <213> Enterobacter cloacae

<400> 10541
 Asn Met Ser Thr Gln Lys Gln Leu Ser Arg Thr Thr Gly Thr Glu Arg
 1 5 10 15
 Met Phe Lys Glu Glu Leu Ala Leu Ser Leu Ile Cys Trp Val Phe Thr
 20 25 30
 Ser Pro Phe Thr Asn Trp Thr Asp Lys Val Phe Ser Gly Ile Glu Val
 35 40 45
 Pro Ser Glu Gly Pro Ser Ser Leu Arg Gly Glu Thr Glu Lys Phe Phe
 50 55 60
 Arg Phe Val Val Asn Glu Glu Gly Tyr Asp Ala Gly Arg Ala Ala Ile
 65 70 75 80
 Gly Leu Asp Leu Cys Cys Phe Ser Leu Pro Leu Cys Leu Phe Pro Asp
 85 90 95
 Ala Ala Leu Ser Glu Glu Glu Val Met Ser Lys Leu Thr Gly Glu Val
 100 105 110
 Ile His Gly Ile Leu Leu Ser Leu Pro Glu Phe Ile Asp Met Pro Glu
 115 120 125
 Val Leu Ala Tyr Gln Val Arg Asp Glu Ile Leu Ala Phe Asn Thr Arg
 130 135 140
 Cys Gly Asp Gly Ile Phe His Gly Trp Asn Thr Ala Ser Glu Leu Trp
 145 150 155 160
 Lys Phe Glu Ile Phe Pro Arg Thr Thr Ile Met Met Gln His Thr Ser
 165 170 175
 Ala Ile His
 180

<210> 10542
 <211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 10542

Gly Thr Thr Met Gln Trp Ile Ser Thr Ala Ser Gln Lys Ile Asp Glu
 1 5 10 15
 Arg Leu Tyr Arg Val Cys Val Trp Val Lys Lys Tyr His Ala Asp Ala
 20 25 30
 Ile Asn Arg Val Val Leu Thr Val Asp Leu Ser Lys Ala Arg His Asp
 35 40 45
 Pro Asp Glu Asp Gln Val Arg Ala Glu Leu Leu Cys Gly His Tyr Phe
 50 55 60
 Leu Leu Arg Lys Glu Asn Ala Ser Asn Ser Ala Pro Asp Asp Gln Lys
 65 70 75 80
 Phe Ala Phe Leu Pro Asp Gly Arg Asn Leu Cys Trp Gln Thr Ala Thr
 85 90 95
 Pro Val Leu Gln His Leu Leu Leu Asn Lys Asn Val Pro Glu Ser Leu
 100 105 110
 Arg Leu Leu Thr Asp Tyr Ile His Met Arg Leu Ala Arg Leu Thr Met
 115 120 125
 Val Pro Met Ser Gly Thr Ile Met Asn Glu Ala Leu Leu Asp Ser Ile
 130 135 140
 Ser Trp Val Lys Val Asp Leu Thr Tyr Phe Trp Gln Tyr Glu Gln Leu
 145 150 155 160
 Ser Ser His Leu Gly Pro Ile Gln Ile Thr His Lys Ala Leu Val Arg
 165 170 175
 Phe Gly His Leu Ala Lys Asn Asp Glu Asn Ser Ser Ala Ile Arg Ile
 180 185 190
 Leu Arg Gln Arg Leu Ser Ser Glu Phe Leu Gln Glu Phe Gln Met Ala
 195 200 205
 Glu Asp Glu Leu Lys Arg Lys Gln Ser Leu Met Gly Thr Met Asp Val
 210 215 220
 Lys Met Leu Phe His Ala His Tyr Pro Ser Gln Lys Met Leu Val Ala
 225 230 235 240
 Arg Tyr Lys Asn Gly Trp Val Met Val Asp Cys Phe Leu Phe His His
 245 250 255
 Thr Lys Pro Lys Lys Lys Ala Lys Asn Lys Thr Thr Val Ala Lys Pro
 260 265 270
 Gln Leu Lys Gln Thr Lys Arg Glu Gly Ser Glu Asn Gly Thr Gly His
 275 280 285
 Tyr Gly Val His Arg Val Val Thr Leu Ser Gly Gly Gly Val Asp Gln
 290 295 300

305

<210> 10543

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 10543

Cys Ile Tyr Phe Ile Asp Gly Tyr His Leu Leu Tyr Ile Thr Leu Asn
 1 5 10 15
 Asp Lys Asn Arg Pro His Gln Arg Pro Tyr Trp Arg Gln Tyr Glu Val
 20 25 30
 Asn Met Gln His Gln Asp Ala Leu Gln Arg Lys Leu Pro Glu Arg Ile
 35 40 45
 Phe His Ala Val Cys Phe Glu Gly Ile Ala Thr Ala Ile Leu Ala Pro
 50 55 60
 Thr Ala Ala Trp Leu Met Gln Arg Ser Val Val Glu Met Gly Gly Leu
 65 70 75 80

Thr Ile Ile Leu Ala Thr Thr Ala Met Leu Trp Asn Ile Ile Tyr Asn
 85 90 95
 Phe Gly Phe Asp Arg Phe Trp Pro Val Gln Arg Val Lys Arg Thr Ala
 100 105 110
 Lys Val Arg Ala Leu His Ala Leu Gly Phe Glu Cys Gly Phe Ile Val
 115 120 125
 Ile Gly Val Thr Ile Val Ala Ala Val Leu Gly Val Thr Leu Leu Gln
 130 135 140
 Ala Phe Thr Leu Glu Ile Gly Phe Phe Leu Phe Phe Leu Pro Tyr Thr
 145 150 155 160
 Met Leu Tyr Asn Trp Ala Tyr Asp Thr Leu Arg Glu Lys Ile Ile Lys
 165 170 175
 Arg His Gln Gln Arg Arg Ala Leu Ala Ser Glu
 180 185

<210> 10544

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 10544

Pro Arg Asn Thr Phe Leu Ser Leu Leu Cys Asp Pro Ile Glu Asp Ala
 1 5 10 15
 Cys Asn Leu Leu Val Leu Ile Ile Lys Ala Gly Gln Arg Gly Ile Leu
 20 25 30
 Pro Gly Gln Ala Thr Cys Gly Arg Leu Leu Val Phe Glu Arg Ser Phe
 35 40 45
 Tyr Val Ile Ile Glu Ile Ile Lys Trp Tyr Ala Ala Gly Lys Met Glu
 50 55 60
 Tyr Leu Pro Gly Val Ala Ile Ile Gly Ile Gln Asn Ser Cys Thr Ala
 65 70 75 80
 Leu Ser Leu Tyr Ile Asp Ala Gly Gln Gly Lys Ile Glu Ser Phe Leu
 85 90 95
 Phe Leu Ile Asn
 100

<210> 10545

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 10545

His Val Ser Ser Leu Arg Cys Trp Leu His Leu Leu Asp Ala Asn Asn
 1 5 10 15
 Met Lys Arg Lys Ile Ile Pro Val Leu Ile Gly Cys Ala Leu Ser Phe
 20 25 30
 Ser Gly Leu Ala Ala Gln Pro Thr Ala Glu Arg Tyr Ile Val Ser Phe
 35 40 45
 Pro Asp Gly Ser His Val Lys Tyr Ser Gly Ala Phe Ala Asp Ala Phe
 50 55 60
 Pro Asn Gly Leu Pro Val Gly Met Gly Ser Gly Leu Leu Phe Thr Gly
 65 70 75 80
 Lys Gln Gly Asp Ala Leu Thr Phe Ala Thr Val Thr Asp Arg Gly Pro
 85 90 95
 Asn Ala Asp Ser Pro Lys Met Gly Lys Asn Asp Ala Lys Ile Phe Val
 100 105 110
 Thr Pro Asp Phe Ala Pro Leu Leu Met Thr Ile Arg Val Gln Asn Gly
 115 120 125
 Lys Ala Glu Ala Val Asp Ala Arg Pro Leu His Asp Asp Lys Gly Glu
 130 135 140
 Ile Asn Gly Leu Pro Leu Gln Ser Gly Val Ile Gly Ser Thr Asn Glu

```

145          150          155          160
Val Ala Leu Ser Asp Thr Leu Lys Val Leu Lys Gly Asp Asn Arg Gly
165          170          175
Leu Asp Thr Glu Gly Ile Thr Pro Asp Gly Lys Asp Gly Tyr Trp Leu
180          185          190
Cys Asp Glu Tyr Gly Pro Phe Leu Ile Asn Val Asp Ser Lys Gly Lys
195          200          205
Ile Leu Ala Ile His Gly Pro Gln Ala Thr Gln Gly Glu Lys Ser Ile
210          215          220
Ala Gly Gly Leu Pro Asn Val Ile Lys Trp Arg Gln Ala Asn Arg Gly
225          230          235
Phe Glu Gly Leu Thr Arg Met Pro Asp Gly Arg Ile Ile Ala Ala Val
245          250          255
Gln Ser Thr Leu Asp Ile Asp Gly Lys Ser Lys Lys Gln Ala Leu Phe
260          265          270
Thr Arg Leu Val Ser Phe Asp Pro Ala Thr Gly Lys Thr Ala Met Tyr
275          280          285
Gly Tyr Pro Val Asp Ser Ala Ala Tyr Ser Lys Asn Ser Asp Ala Lys
290          295          300
Ile Gly Asp Ile Val Ala Leu Asp Asn His Thr Ile Leu Leu Ile Glu
305          310          315
Gln Gly Glu Asp Lys Asn Asp Ala Met Arg Asn Leu Ile Tyr Arg Val
325          330          335
Asp Leu Ser Lys Ala Ser Asp Leu Ala Ala Phe Asp Lys Pro Gly Glu
340          345          350
Tyr Pro Glu Phe Asp Asp Glu Lys Thr Leu Ala Gln Arg Gly Ile Thr
355          360          365
Leu Ala Glu Lys Thr Gln Val Val Asp Leu Arg Ala Leu Gly Trp Gln
370          375          380
Gln Glu Lys Ala Glu Gly Leu Ala Leu Ile Asp Ser Lys Thr Leu Ala
385          390          395
Val Ala Asn Asp Asn Asp Phe Gly Val Lys Val Ala Met Gln Asn Pro
405          410          415
Val Glu Gly Lys Lys Leu Lys Asp Tyr Arg Val Asn Ala Glu Gly Lys
420          425          430
Leu Thr Leu Asp Asp Lys Pro Val Glu Thr Thr Leu Ser Val Lys Pro
435          440          445
Leu Lys Lys Pro Glu Ser Asp Ser Glu Leu Trp Ile Val Thr Leu Pro
450          455          460
Glu Ala Leu Lys
465

```

<210> 10546

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10546

```

Asn Ala Ala Asn Asn Asn Lys Asn Gly Glu His His Gln Gln Tyr Phe
1          5          10          15
Cys Lys Lys Thr Lys Leu Tyr Ile Tyr Cys Lys Arg Lys Lys Lys Lys
20          25          30
Arg Thr Pro Gly Lys Glu Arg Arg Pro Ser Gly Gln Leu Ile Tyr Asn
35          40          45
Thr Ala Thr Phe Glu Pro Asn Lys Met Asn Asn Asn Phe Leu Ser Ser
50          55          60
Pro Arg Gly Cys Gln Val Pro Arg
65          70

```

<210> 10547

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 10547

```

Pro Thr Leu Phe Leu Ser Gly Leu Glu Leu Ile Lys Tyr Lys Lys Gln
1          5          10          15
Asn Gly Ile Asn Met Ile Phe Ser Arg Cys Ala Arg Ala Glu Ile Lys
20          25          30
Glu Asn Met Arg Lys Arg Lys Asn Lys Lys Ala His Val Thr Ser Asn
35          40          45
Val Gly Leu Asn Ile Gly Gly Thr Asp Gly Thr Arg Thr Arg Asp Pro
50          55          60
Leu Arg Asp Arg Gln Val Phe
65          70

```

<210> 10548

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10548

```

Leu Asn Gly Ile Pro Glu Val Lys Ser Ala Leu Asn Gly Arg Lys Tyr
1          5          10          15
Phe Ala Lys Gln Ile Val Ser Phe Arg Phe Cys Gly Glu Ile Lys Pro
20          25          30
Val Leu Arg Tyr Ser Ser Asp Asp Lys Val Asn Asp Ser Cys Gln Lys
35          40          45
Ala Gly Ala Tyr Arg Glu Gln Thr Tyr Asn Glu Arg Lys
50          55          60

```

<210> 10549

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 10549

```

Tyr Gly His Phe Asp Ser Leu Cys Arg Lys Tyr Asp Phe Val Leu Pro
1          5          10          15
Phe Trp Arg Cys Asp Gln Arg Ala His Cys Gly Ala Val Leu His Lys
20          25          30
Phe Ser Leu Ile Asn Lys Leu Leu Phe Leu Val Ala Lys Cys Leu Val
35          40          45
Gly Asn Thr Pro Phe Thr Phe Ser Glu Leu Leu Thr Gly Ala Cys Arg
50          55          60
Arg Gly Pro Lys Ser Leu Val Phe Arg Ile Gly Ala Tyr Phe Arg Arg
65          70          75          80
Trp Gly Leu Leu Thr Arg Ser
85

```

<210> 10550

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 10550

```

Arg Gly Ser His Cys Leu Tyr Val His Gly Phe Arg Phe Phe Phe Thr
1          5          10          15
Pro Leu Ala Gly Val Leu Phe Ala Phe Pro Ser Arg Tyr Trp Phe Thr
20          25          30
Ile Gly Gln Ser Gly Val Phe Ser Leu Gly Gly Trp Ser Pro His Ile
35          40          45

```

Gln Thr Gly Tyr His Val Ser Arg Pro Thr Leu Arg Val His Ser Lys
 50 55 60
 Cys Val Phe Val Tyr Gly Thr Ile Thr Leu Tyr Arg Arg Thr Phe Gln
 65 70 75 80
 Thr Val Pro Leu Thr His Lys Leu Ile Gln Thr Pro Gly Cys Ser Pro
 85 90 95
 Phe Ala Arg Arg Tyr Trp Gly Asn Leu Gly
 100 105

<210> 10551

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10551

Pro Asp Phe Ser Ala Ile Ser Ser Thr Ser Lys Val Asp Val Ser Glu
 1 5 10 15
 Phe Ser Thr His Trp Thr Ile Ser Leu Thr Thr Leu Ser Ala Tyr Val
 20 25 30
 Phe Val Ile Ile Cys Pro Leu Ile Thr Lys Phe Tyr Ile Tyr Leu Lys
 35 40 45
 Lys Lys Tyr Lys Phe Phe Ile His Glu Glu Leu Ser Arg Asn Thr Ile
 50 55 60
 Tyr Val Thr Ile Ser Asp His Leu Leu Gln Pro Glu Gly
 65 70 75

<210> 10552

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10552

Ala Ala Val Thr Ala Met Ser Met Met Phe Ile Ser Leu Ile Ile Leu
 1 5 10 15
 Ser Val Val Met Val Thr Pro Leu Met Leu Met Ile Ala Met Thr Met
 20 25 30
 Phe Phe Leu Thr Met Ile Met Phe Phe Ile Ser Met Thr Met Phe Met
 35 40 45
 Ala Ala Ser Phe Met Cys Met Pro Thr Phe His Met Pro Leu Leu Ala
 50 55 60
 Met
 65

<210> 10553

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10553

Tyr Phe Arg Ile Lys Leu Ile Asn Arg Lys Ser Ser Val Met Ala Lys
 1 5 10 15
 His Lys Ser Asn Ser Leu Val Leu Arg His His Gly Pro Arg Lys Ile
 20 25 30
 Ala Asn Leu Leu Thr Leu Cys Phe His Glu Asn Asp Val Ala Pro His
 35 40 45
 Leu Leu Val Tyr Pro Asn Asp Leu Tyr His Gln Gln Ser Leu Ile Tyr
 50 55 60
 Glu Glu
 65

<210> 10554

<211> 67
 <212> PRT
 <213> Enterobacter cloacae

<400> 10554

Ala Thr Arg His Phe Leu His Trp Asp Arg Leu Pro Arg Tyr His Arg
 1 5 10 15
 Phe Ile Tyr Lys Thr Cys Ser Phe Thr Tyr Leu Thr Ile Asn Arg His
 20 25 30
 Ser Leu Thr Trp Ser Asn Phe Asp Asn Val Ile Lys Asp Tyr Ile Ile
 35 40 45
 Asn Trp Asn Ile Asp Asn Asn Ala Ile Thr Gln His Met Arg Leu Phe
 50 55 60
 Gly Leu
 65

<210> 10555

<211> 63
 <212> PRT
 <213> Enterobacter cloacae

<400> 10555

Ile Asn His Ser Glu Phe Met Cys Asp Lys Ile Val Trp Ser Phe Phe
 1 5 10 15
 Ile Tyr Ser Val Asn Arg Phe Thr Ser Arg Glu Leu Ile Gln Pro Glu
 20 25 30
 Val Gly Tyr Phe Asn Gly Gly Ala Met Gly Val Leu Phe Leu Met Asn
 35 40 45
 Gly Met Phe Val Lys Arg Ile Ala Asn Asn Val Arg Gly Ile
 50 55 60

<210> 10556

<211> 710
 <212> PRT
 <213> Enterobacter cloacae

<400> 10556

Asn Gly Asp Asn Gly Met Thr Glu Ala Lys Thr Lys Pro Tyr Ala Pro
 1 5 10 15
 Arg Val Val Ser Glu Gly Asp Ile Pro Val His Lys Thr Leu Gly Glu
 20 25 30
 Val Ala Gln Thr Arg Asn Val Gly Ile Pro Arg Pro Met Pro Gly Ile
 35 40 45
 Val Ile Leu Val His Gly Val Asn Asp Val Gly Glu Ala Tyr Gln Asn
 50 55 60
 Gln Glu Lys Gly Ile Leu Ala Gly Leu Gly Lys Arg Leu Asn Arg Gln
 65 70 75 80
 Asp Phe Tyr Ala His Glu Trp Lys Asp Tyr Arg Ile Ile Thr Pro Gly
 85 90 95
 Arg Ser Pro Ile Ile Pro Phe Tyr Trp Gly Tyr Lys Pro Val Thr His
 100 105 110
 Ala Asp Tyr Arg Ala Asp Gln Lys Arg Tyr Arg Glu Glu Val Gly Lys
 115 120 125
 Leu Ser Asp Lys Ala His Leu Pro Tyr Asp Ala Tyr Gln Glu Asp Asn
 130 135 140
 Glu Thr Asn Lys Lys Ser Leu Gly Asn Asp Gly Lys Gly Pro Phe Gln
 145 150 155 160
 Tyr Gln Asn Asp Asn Phe Lys Asn Ala Leu Asp Lys Ser Phe Ala Lys
 165 170 175
 Gly Gly Gly Thr Phe Ala Asn Ala Thr Thr Ile Pro Asp Met Leu
 180 185 190

675 680 685
 Asn Gln Asp Val Ala Asn Leu Gln Trp Asp Met Pro Lys Pro Ile Ser
 690 695 700
 Asp Ser Gln Leu Ala
 705 710

<210> 10557

<211> 237

<212> PRT

<213> *Enterobacter cloacae*

<400> 10557

Ser Met Lys Ile Ser Phe Met Gly Leu Met Ala Thr Ala Val Leu Leu
 1 5 10 15
 Ala Ile Gly Cys Gln Ala Lys Arg Thr Ala Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Tyr Leu Glu Leu Lys Gly Trp Gly Arg Glu Gly
 35 40 45
 Glu Leu Trp Tyr Thr Asp Thr Glu Leu Gly Ile His Thr Gln Pro Val
 50 55 60
 Ser Gln Phe Tyr Lys Ile Phe Thr Lys Lys Phe Ile His Pro Ser Glu
 65 70 75 80
 Arg Tyr Ile Ala Ile Pro Thr Trp Gly Ser Pro Gly Thr Ile Ile Ser
 85 90 95
 Lys Asp Tyr Gly Lys Thr Trp Ser Pro Gln Phe Tyr Ser Ala Gly Ser
 100 105 110
 Asn Glu Pro Asn Gly Asp Ser Ser Pro Pro Tyr Asp Asp Ile Ile Ser
 115 120 125
 Phe Thr Val Val Lys Asp Gln Gly Phe Met Leu Thr Lys His Arg Leu
 130 135 140
 Tyr Met Ser Ser Lys Pro Phe Glu Asp Pro Arg Ile Leu Pro Gly Gly
 145 150 155 160
 Pro Gly Ile Ala Tyr Thr Val Asp Asp Gly Met Gly Asn Lys Val Ser
 165 170 175
 Gly Lys Leu Asp Pro Arg Ser Pro Gly Trp Ala Trp Gly Met Val Tyr
 180 185 190
 Met Thr Lys Gln Gly Leu Glu Gly Ser Thr Gln Gln Leu Lys Ala Asn
 195 200 205
 Trp Gln Asp Leu Pro Asp Ser Val Pro Glu Val Lys Gly Tyr Thr Gly
 210 215 220
 Trp Asp His Met Arg Cys Asp Met Asp Ala Gly Arg
 225 230 235

<210> 10558

<211> 237

<212> PRT

<213> *Enterobacter cloacae*

<400> 10558

Leu Met Lys Gly Leu Cys Thr Val Leu Ala Ala Thr Ser Val Val Leu
 1 5 10 15
 Val Thr Gly Cys Leu Val Lys Glu Pro Pro Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Tyr Leu Glu Leu Lys Gly Trp Asp Cys Glu Gly
 35 40 45
 Glu Leu Trp Tyr Thr Asp Thr Lys Arg Gly Ile His Thr Glu Pro Val
 50 55 60
 Ser Gln Phe Tyr Arg Leu Phe Thr Arg Lys Phe Ile His Pro Ser Glu
 65 70 75 80
 Arg Tyr Ile Ala Leu Thr Gly Trp Gly Val Ser Gly Phe Ile Val Ser
 85 90 95

Lys Asp Tyr Gly Lys Thr Trp Arg Ser Val Ala Phe Ser Pro Asn His
 100 105 110
 Asn Glu Pro Asn Gly Asp Asp Tyr Ala Pro Tyr Glu Asp Ile Ile Ser
 115 120 125
 Phe Thr Val Val Asn Asp Gln Gly Phe Leu Gln Thr Lys His Gln Leu
 130 135 140
 Tyr Met Ser Ser Lys Pro Phe Glu Asp Pro Arg Ile Leu Pro Gly Gly
 145 150 155 160
 Pro Gly Ile Ala Tyr Thr Val Asp Asp Gly Met Gly Asn Lys Val Ser
 165 170 175
 Asp Thr Leu Asp Pro Arg Phe Pro Gly Trp Ala Trp Gly Met Val Tyr
 180 185 190
 Met Thr Lys Gln Gly Leu Lys His Ser Thr Gln Gln Phe Lys Ala Asn
 195 200 205
 Trp Gln Asp Leu Pro Asp Ser Val Pro Glu Val Lys Glu Tyr Thr Gly
 210 215 220
 Trp Asp His Met Arg Cys Asp Met Asp Ala Gly Arg
 225 230 235

<210> 10559

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10559

Leu Met Lys Gly Leu Cys Thr Val Leu Ala Ala Thr Ser Val Val Leu
 1 5 10 15
 Ala Thr Gly Cys Gln Ala Lys Glu Pro Pro Thr Gln Val Val Tyr Arg
 20 25 30
 Phe Asp Asp His Arg Tyr Leu Glu Leu Lys Gly Trp Gly Cys Asp Arg
 35 40 45
 Lys Leu Trp Phe Pro Asp Thr Lys Pro Ser Ile His Ser Glu Thr Pro
 50 55 60
 Lys Phe Val
 65

<210> 10560

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10560

Lys Arg Ser Ile Phe Glu Arg Cys Val Arg Ile His Leu Pro Val Phe
 1 5 10 15
 Thr Phe Gln Glu Arg Gln Asn Ser Ser Ala Leu Val Met Ile Phe Pro
 20 25 30
 Pro Phe Tyr His Ser Cys Arg Lys Pro Lys Arg Gln Pro Cys Ser Lys
 35 40 45
 Phe Ala Thr Tyr Pro Glu Gly Ala Asn Gly Val Leu
 50 55 60

<210> 10561

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10561

Lys Arg Thr Pro Arg Ser Gly Leu Pro Lys Cys Pro Cys Ala Leu Phe
 1 5 10 15
 Val Ser Leu Thr Lys Ser Cys Ser Lys Val Gly Tyr Gln Ile Leu
 20 25 30

Leu Leu Tyr Arg Ser Asp Gly Ile Val Gln Pro Arg Thr Ile Pro Ser
 35 40 45
 Leu Thr Val Ile Lys Asn Lys Asp Asn Ile Gly Pro Thr Ile Tyr Leu
 50 55 60
 Asn Ile Leu Ser Leu Phe Leu Thr Pro Ile Thr Tyr Arg
 65 70 75

<210> 10562

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10562

Lys Ser Asn Gly Pro Leu Ser Pro Leu Phe Val Thr Ser Ser Gln Phe
 1 5 10 15
 Tyr Tyr Ser Arg Pro Leu Ser Leu Leu Ser Val Val Val Ile Ser Leu
 20 25 30
 Pro Glu Pro Cys Leu Leu Phe Ile Thr His Ile Ala Gly His Gly Ile
 35 40 45
 Asp Ile Asn Trp Leu Ala Leu Gly Val His Thr Gly Lys Thr Ala Cys
 50 55 60
 Gln Lys Ile Lys Ile Leu
 65 70

<210> 10563

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 10563

Trp Arg Cys Cys Thr Cys Gly Trp Ala Arg Thr Trp Met Tyr Val Cys
 1 5 10 15
 Ser Tyr Ala Leu Pro Gly Ile Cys Cys Arg Met Arg Gly Cys Pro Ala
 20 25 30
 Met Arg Asn Lys Ser Arg Arg Ser Gly Ala Arg Gln Cys Cys Val Pro
 35 40 45
 Leu Ile Arg Asn Arg Thr Glu Thr Thr Leu Ser Pro Phe Thr Leu Asp
 50 55 60
 Ala Phe Ser Ala Ser Gly Lys Thr Phe Ser Glu Gly Lys Thr Met Lys
 65 70 75 80
 Met Ala Ile Thr Ala Gly Lys Ala Leu Ala Ile Thr Leu Ala Thr Leu
 85 90 95
 Leu Thr Gly Cys Gly Leu Thr Gln Lys Val Thr Asp Gly Thr Val Ala
 100 105 110
 Val Thr Lys Ser Ile Phe Tyr Arg Gln Val Lys Thr Leu His Leu Asp
 115 120 125
 Ile Gln Ala Arg Glu Gly Val Asn Asn Asn Ala Lys Gly Ala Ser Leu
 130 135 140
 Ala Thr Val Val Arg Ile Tyr Gln Leu Lys Glu Arg Lys Ala Phe Asp
 145 150 155 160
 Ser Thr Asp Tyr Pro Ser Leu Phe Ala Ser Asp Thr Gln Ala Ile Lys
 165 170 175
 Ala Asp Leu Val Ala Glu Lys Asp Ile Arg Leu Arg Pro Gly Glu Ser
 180 185 190
 Val Thr Leu Asp Met Pro Met Glu Glu Ser Ala Gln Val Val Ala Val
 195 200 205
 Ala Gly Met Phe Met Ala Pro Asp Gln Val Asn Asp Thr Trp Arg Ile
 210 215 220
 Thr Leu Thr Arg Asp Asp Leu Asp Pro Asp Lys Ala Arg Val Ile Glu
 225 230 235 240
 Val Ser Asn Asn Arg Leu Thr Leu Lys Pro Leu Glu Gly Glu

245

250

255

<210> 10564

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10564

```

Ile Pro Val Gly Pro Glu Pro Ile Met Ala Ile Phe Phe Ile Glu Ser
1      5      10      15
Val Pro Ala Phe Leu Asn His Thr Thr Ser Val Ala Gly Glu Arg Leu
      20      25      30
Ser His Ser Met Lys Gly Glu Ile Lys Thr Phe Arg Arg Gly Asp Val
      35      40      45
Ala Pro Leu Pro Glu Phe Met Gly Lys Ser Ile Gln Leu Thr Leu Leu
      50      55      60
Ile Arg Tyr Asn Ser Ala
65      70

```

<210> 10565

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 10565

```

Ala Arg Cys Arg Lys Arg Lys Arg Lys Ala Val Ala Gly Met Lys Ile
1      5      10      15
Tyr Arg Pro Leu Trp Glu Asp Gly Ala Phe Leu Ala Pro Gln Gln Phe
      20      25      30
Gln Gln Gln Ala Arg Trp Asp Ala His Val Ala Asp Thr Val Ala Arg
      35      40      45
Met Ala Leu Ala Asn Pro Trp Gly Val Leu Cys Ala Glu Phe Asp Glu
      50      55      60
Gly Ala Leu Ala Leu Ser Arg Leu Asn Ala Thr Arg Leu Cys Val Arg
65      70      75      80
Phe Ala Asp Gly Thr Leu Val Asp Thr Asp Leu Ala Asp Thr Arg Leu
      85      90      95
Arg Ser Gly Ser Arg Tyr Ala Ala Val Ala Ile Ser Gly Ala Ala Ala
      100      105      110
Gly Asp Asp Ala Ala Gly Thr Asp Gly Gly Gly Asn Gly Gly Ala Gly
      115      120      125
Ala Ala Ala Gly Thr Gly Tyr Ala His Ala Gly Leu Ser Pro
      130      135      140

```

<210> 10566

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 10566

```

Met Pro Pro Gly Phe Ala Cys Ala Leu Arg Met Val Arg Trp Trp Thr
1      5      10      15
Gln Ile Trp Arg Ile Pro Gly Cys Ala Gln Ala Ala Gly Thr Pro Leu
      20      25      30
Ser Arg Phe Leu Ala Leu Leu Pro Val Met Met Leu Pro Gly Arg Thr
      35      40      45
Ala Glu Gly Met Gly Ala Leu Val Arg Leu Leu Ala Pro Asp Thr Arg
      50      55      60
Thr Gln Val Tyr His His Asp Arg Cys Arg Ile Pro Leu Lys Gln Pro
65      70      75      80
Val Ala Met Ser Thr Cys Gln Pro Val Ser Leu Lys His Arg Pro Val

```



```
<210> 10567
<211> 159
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10568
<211> 62
<212> PRT
<213> Enterobacter cloacae
```

<210> 10569

<211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 10569

```

Asn Val Arg Glu Asn Arg Leu Val Arg Leu Asn Gly Leu Glu Pro Ser
1      5      10      15
Thr Pro Thr Met Ser Arg Trp Cys Ser Asn Gln Leu Ser Tyr Arg Arg
      20      25      30
Lys Met Val Arg Ser Ile Gly Leu Glu Pro Thr Thr Pro Thr Met Ser
      35      40      45
Arg Trp Cys Ser Asn Gln Leu Ser Tyr Glu Arg Ile Val Leu Ser Val
      50      55      60
Thr Thr Gly Thr Asn Ile Ser Gly Thr Ala Val Phe Thr Thr Gly Leu
65      70      75      80
Glu Gly Thr Ala Leu
      85

```

<210> 10570
 <211> 235
 <212> PRT
 <213> Enterobacter cloacae

<400> 10570

```

Val Thr Leu Cys Val Gly Ser Ser Ala Arg Ser Trp Ser Lys Thr Ile
1      5      10      15
His Ser His Leu Ser Ser Ala Cys Pro Ile Asn Gln Asn Glu Cys Ser
      20      25      30
Asn His Ile Ser Gln Phe Ser Ile Asp Ile Lys Val Gln Asp Trp Leu
      35      40      45
Ser Arg Ser Arg Val Ala Phe Ile Asp Phe His Asn Leu Arg Asn Thr
      50      55      60
Asp Lys Thr Thr Leu Ile Thr Val Glu His Leu Glu Ala Leu Leu Thr
65      70      75      80
Val Met Ser Thr Thr Leu Val Ala Tyr Ala Pro Tyr Ser Lys Lys Arg
      85      90      95
Leu Asn Phe Ser Phe Leu Asn Ser Phe Thr Leu Ser Lys Thr Ser Gln
      100      105      110
Ser Tyr Thr Leu Thr Phe Pro Val Val Leu Ser Pro Leu Leu Asp Ala
      115      120      125
Leu Gly Gly Phe Ile Gln Glu Cys Ile Thr Glu Lys Leu Leu Lys Arg
      130      135      140
Arg Asn Ser Asn Phe Met Val Tyr Glu Tyr Leu Lys Arg Ser Gly Gln
145      150      155      160
Ser Ser His Lys Val Glu Asp Ile Asn Asn Asp Leu Gln Leu Lys Thr
      165      170      175
Leu Asn Ile Arg Leu Met Ser Val Leu Thr Gly Leu Ser Gln Gln Gly
      180      185      190
Leu Ile Ser Phe Ile Cys Asp Gly Lys Arg Gly Asp Arg Arg Ile Glu
      195      200      205
Glu Leu Gln Phe Ile Pro Tyr Val Gln Arg Thr His Pro Glu Val Leu
210      215      220
Thr Phe Gln Glu Trp Ile Ser Pro Val Asp
225      230      235

```

<210> 10571
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<400> 10571

Lys His Asp Arg Phe Gly Ser His Pro Val Arg Arg Thr Tyr Ser Thr
 1 5 10 15
 Arg Gly Ser Pro Met Ser Asn Gln Pro Thr Ser Leu Pro Glu Asp
 20 25 30
 Ile Glu Phe Val Met Asp Thr Phe Gln Arg Ser Met Gly Lys Ser Lys
 35 40 45
 Pro Val Arg Asp Thr Gln Ile Glu Gly Glu Lys Pro Gln Ser Lys Glu
 50 55 60
 Ser Ala Asn Ser Thr Glu Asn Pro Gly Tyr Glu Glu Phe Phe
 65 70 75

<210> 10572

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10572

Gly Met Gly Asp Ile Val Ile Lys Arg Arg Asn Ile Arg Arg Ser Val
 1 5 10 15
 Tyr Gly Leu Leu Ile Val Leu Ile Ala Gly Asn Val Trp Leu Gly Leu
 20 25 30
 Arg Ala Asp Lys Ile His Lys Val Arg Tyr Gln Asp Phe Trp Ser Pro
 35 40 45
 Ala Thr Val Ile Lys Val Thr Val Met Pro Ser Thr Asn Glu Ile Gln
 50 55 60
 Leu Ser Gly Lys Ile Pro Lys Ser Val Arg Val Ser Asn Asn Tyr Val
 65 70 75 80
 Glu Tyr Ser Leu Pro Gly Thr Leu Ser Asp Lys Thr Ile Tyr Arg Ser
 85 90 95
 Val Leu Glu Asp Glu Met Leu Thr Leu Leu Asn Ala Gly Gly Gln Leu
 100 105 110
 Glu Val Lys Tyr Thr Leu Asp Lys Gln Thr Asn Arg Thr Lys Val Cys
 115 120 125
 Thr Lys Cys Leu Arg Val Ile Lys Asp Ile Asn His Gln Tyr Ser Ala
 130 135 140
 Thr Glu Val Lys His Gly Gln Ser
 145 150

<210> 10573

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 10573

Pro Thr Ala Gly Arg Arg Ile Ile Tyr Phe Trp Gln Ser Val Gly Phe
 1 5 10 15
 Val Arg Val Ile Lys Asp Ser Gly Phe Leu Pro Ala Phe Phe Lys Pro
 20 25 30
 Pro Cys Ile Val Leu Ala Pro Phe Met Arg Gly Phe Phe Ala Ser
 35 40 45
 Phe Tyr Glu Leu Thr Ser Leu Ser Phe Ile Gln Arg His Lys Lys Leu
 50 55 60
 Phe Arg Val Thr Glu Pro Ile Arg Leu Gln Ser Asp Val Ala Ile Leu
 65 70 75 80
 Val Lys Val Phe Ser Lys Gly Pro Val Lys Cys His Leu Leu Ile Leu
 85 90 95
 Lys Leu Asn Pro Ile Met Gln Val Thr Ala Tyr Trp Leu
 100 105 110

<210> 10574

<211> 608

<212> PRT

<213> Enterobacter cloacae

<400> 10574

Gly	Tyr	Asn	Leu	Phe	Pro	Glu	His	His	Met	Arg	Lys	Thr	Leu	Ile	Gly
1				5					10					15	
Cys	Met	Val	Ala	Thr	Ala	Leu	Ala	Thr	Val	Ser	Ser	Ala	His	Ala	Gln
			20					25					30		
Val	Phe	Ser	Tyr	Ser	Phe	Thr	Asp	Thr	Asn	Lys	Ala	Val	Arg	Asn	Ile
	35						40					45			
Lys	Pro	Ala	Thr	Gln	Thr	Tyr	Leu	Asn	Pro	Ala	Gly	Val	Leu	Thr	Leu
	50					55					60				
Asn	Leu	Ile	Ser	Gly	Leu	Asp	Arg	Tyr	Glu	Arg	Val	Thr	Val	Thr	Arg
65					70					75					80
Asp	Ser	Asp	Lys	Lys	Val	Met	Tyr	Ser	Ser	Val	Ser	Thr	Lys	Thr	Ser
			85					90						95	
Val	Ala	Asp	Arg	Ile	Val	Ala	Ala	Asp	Gly	Thr	Glu	Tyr	Tyr	Gly	Lys
			100					105					110		
Asp	Met	Val	Leu	Pro	Ala	Leu	Gly	Glu	Gly	Thr	Phe	Thr	Val	Val	Asn
	115						120					125			
Glu	Thr	Leu	Asp	Ile	Arg	Gln	Thr	Val	Val	Ser	Thr	Ser	Thr	Tyr	His
	130					135					140				
Phe	Ile	Val	Asp	Thr	Thr	Pro	Pro	Arg	Tyr	Lys	Ser	Ile	Tyr	Pro	Ser
145					150					155					160
Gln	Asn	Ala	Gly	Tyr	Asp	Met	Val	Leu	Ser	Gly	Pro	Leu	Trp	Glu	Leu
			165					170						175	
Gly	Arg	Gly	Gly	Ser	Gly	Gln	Phe	Ser	Ile	Phe	Ala	Asp	Gly	Ile	Glu
			180					185					190		
Asp	Ala	Ser	Gly	Ile	Ala	Lys	Ile	Arg	Leu	Val	Ile	Lys	Arg	Ser	Asn
		195					200					205			
Gly	Ser	Val	Val	Ser	Asp	Asn	Asn	Leu	Ser	Tyr	Asp	Thr	Ala	Asn	Lys
	210				215						220				
Arg	Ala	Phe	Tyr	Pro	Trp	Ile	Lys	Asp	Met	Asn	Thr	Gln	Ala	Gly	Met
225					230					235					240
Pro	Ser	Ser	Asp	Leu	Asp	Glu	Glu	Phe	Thr	Phe	Asn	Phe	Ile	Val	Thr
			245					250						255	
Asp	Leu	Ala	Gly	Asn	Thr	Leu	Asn	Ile	Pro	Pro	Gln	Arg	Phe	Leu	Tyr
		260						265					270		
Asp	Asp	Gln	Met	Gly	Glu	Phe	Thr	Pro	Phe	Ala	Val	His	Asp	Ser	Arg
		275					280					285			
Val	Ser	Thr	Ser	Val	Val	Pro	Gly	Ile	Ser	Ser	Gly	Tyr	Val	Pro	Phe
	290					295					300				
Lys	Arg	Gly	Leu	Thr	Val	Leu	Glu	Asn	Pro	Tyr	Lys	Leu	Val	Ile	Arg
305					310					315					320
Ile	Pro	Arg	Thr	Asn	Trp	Lys	Pro	Tyr	Arg	Asn	Gly	Gly	Met	Ser	Ile
			325						330					335	
Thr	Asn	Asn	Tyr	Gly	Gly	Val	Gln	Val	Leu	Ser	Glu	Asp	Ala	Thr	Tyr
			340					345					350		
Val	Tyr	Val	Glu	Val	Lys	Leu	Pro	Gln	Gly	Ala	Leu	Asp	Gly	Asn	Tyr
		355					360					365			
Tyr	Arg	Pro	Val	Asn	Thr	Tyr	Gln	Trp	Ser	Gly	Gly	Asp	Leu	Gly	Gln
	370				375							380			
Tyr	Ala	Ser	Trp	Leu	Asn	Trp	Asp	Pro	Ala	Ser	Val	Lys	Ser	Pro	Ala
385					390					395					400
Trp	Gly	Ser	Ser	Pro	Ile	Glu	Arg	Gln	Lys	Ala	Asp	Gly	Thr	Trp	Phe
			405						410					415	
Asn	Ser	Val	Asn	Trp	Asn	Leu	Phe	Lys	Ala	Ser	Asp	Met	Pro	Ile	Lys
			420					425					430		
Leu	Thr	Asn	Ile	Arg	Phe	Asn	Val	Gln	Ala	Arg	Pro	Tyr	Asp	Gln	Lys
		435					440					445			
Ile	Thr	Gly	Gly	Ala	Thr	Cys	Ser	Ile	Pro	Ala	Gly	Ser	Thr	Thr	Cys

450						455						460					
Thr	Val	Ser	Leu	Pro	Gln	Asp	Ile	Ile	Asn	Gly	Thr	Thr	Gly	Tyr	Leu		
465					470					475					480		
His	Ser	Gly	Tyr	Glu	Val	Arg	Ser	Thr	Thr	Glu	Ala	Thr	Phe	Phe	Ala		
				485					490					495			
Pro	Ile	Trp	Glu	Asn	Ile	Ala	Trp	His	Thr	Leu	Gly	Pro	Ser	Val	Thr		
			500					505					510				
Gly	Phe	Asp	Tyr	Ile	Glu	Thr	Thr	Asn	Ile	Leu	Gln	Val	Tyr	Val	Asn		
		515					520					525					
Gln	Pro	Gly	Asp	Gly	Ser	Tyr	Phe	Asp	His	Val	Tyr	Val	Asn	Arg	Val		
	530					535					540						
Trp	Leu	Ser	Asp	Lys	Asn	Arg	Asn	Asn	Ala	Glu	Ile	Ser	Val	Thr	Gly		
545				550						555					560		
Lys	Gln	Thr	Gly	Arg	Asn	Met	Ala	Ser	Gly	Asn	Tyr	Thr	Tyr	Glu	Phe		
				565					570					575			
Asn	Met	Lys	Glu	Val	Pro	Glu	Gly	Ser	Tyr	Asn	Val	Val	Ile	Asn	Ala		
			580					585					590				
Gln	Asp	Thr	Phe	Asn	Asn	Thr	Gly	Asn	Leu	Pro	Tyr	Gln	Thr	Val	Val		
		595					600					605					

<210> 10575

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10575

Val	Asp	Gln	Val	Trp	Ile	Ala	Ile	Cys	Lys	Gln	Cys	Ile	Leu	Cys	Lys		
1				5					10					15			
His	Val	Gln	Lys	Asn	Gly	Thr	Thr	Ala	Tyr	Lys	Gly	Phe	Tyr	Pro	Pro		
			20					25					30				
Ala	Thr	Met	Ile	Val	Trp	Val	Val	Met	Ala	Asp	Glu	Arg	His	Gln	Phe		
		35				40						45					
Arg	Phe	Ser	Thr	Ser	Pro	Phe	Asp	Tyr	Arg	His	Val	Ser	Glu	Met	Ser		
	50					55					60						
Ser	Gln	Ser	Val	Tyr	Thr												
65					70												

<210> 10576

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 10576

Ala	Pro	Lys	Glu	Lys	Ser	Val	Thr	Val	Leu	Asp	Val	Ile	Leu	Ser	Leu		
1				5					10					15			
Ile	Val	Ile	Ile	Ala	Thr	Met	Asn	Gly	Asp	Ala	Ile	Pro	Ser	Val	Ala		
			20					25					30				
Arg	Thr	Ile	Thr	Asp	Ile	Ser	Asp	Arg	Phe	Ser	Leu	Ala	Asp	Pro	Leu		
		35					40					45					
Leu	Ile	Ala	Asp	Ile	Ala	Leu	Asn	Ile	Thr	Asn	Val	Leu	Leu	Ser	Ile		
	50					55					60						
Arg	Lys	Gln	His	Lys	Ser	Met	Tyr	Asn	Ile	Gly	Phe	Pro	Gln	Pro	Ile		
65				70						75				80			
Ser	Asp	Gly	Tyr	Pro	Val	Ile	Leu	His	Lys	Phe	Asp	Ser	Thr	Asp	Ala		
				85					90					95			
Phe	Lys	Ile	Ser	Leu	Pro												
				100													

<210> 10577

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10577

```

Thr His Thr Cys Ser Ser Gln Thr Pro Tyr Phe Tyr Leu Phe Val Cys
1          5          10          15
Arg Leu Arg Leu Phe Leu Arg Cys Tyr Gly Phe Tyr Leu Thr Lys
          20          25          30
Leu Asp Leu His Lys His Gly Arg Asn Met Asn His Leu Gln Val Asp
          35          40          45
Ser Arg Lys Pro Gly Glu Cys Trp Trp Phe Gln Cys Asn Gln Ile Gln
          50          55          60

```

65

<210> 10578

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10578

```

Thr His Thr Thr Leu His Val Ser Phe Ser Leu Gly Thr Asn Phe Ser
1          5          10          15
Ser Val Val Leu Ser Met Ile Leu Arg Pro Asp Val His Pro Arg Asp
          20          25          30
Leu Ser Leu Trp Leu Tyr Ile Pro Val Ile Leu Ala Ala Met Ala Ala
          35          40          45
Leu Glu Phe Thr Ser Ile Glu Arg Val Pro Ser Phe Ser
          50          55          60

```

<210> 10579

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 10579

```

Glu Phe Gly Ser Gly Thr Phe Tyr Gly Ala Pro Gly Leu Asp Lys Arg
1          5          10          15
Asp Gln Cys Phe Ser Ile Ile Leu Phe Gln Asn Val Leu Leu Arg Ile
          20          25          30
Arg Tyr Arg Pro Asp Ile His His Leu Thr Gly Lys Arg Asn Leu Tyr
          35          40          45
Gly Thr Phe Thr Thr Asp Ile Gln Lys Ala Val Phe Thr Gly Tyr Asn
          50          55          60
Thr Val Ala Cys Asp Ser Ile Ser Gly Ser Asn Gly Thr Lys Asn Gln
          65          70          75          80
Leu Thr Thr Ile Asn Ser Gln Ser Thr Asp Met Leu Gly Thr Ile Ser
          85          90          95
Asp Tyr Gly Cys Val Ile Ser Leu Arg Asn Lys His Cys Ile Arg Asp
          100          105          110
Ala Leu Ser Ile Tyr Ser Val Glu His Lys Val Thr Phe Ser
          115          120          125

```

<210> 10580

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 10580

```

Ile Lys Arg Cys Ser Gly Ala Gln Phe Asp Arg Arg Phe Thr Ile Asn
1          5          10          15
Gly Asn Asn Val Thr Thr Ser Gly Val Ile Asn Leu Arg Ile Gly Pro

```

```
<210> 10581
<211> 75
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10582
<211> 111
<212> PRT
<213> Enterobacter cloacae
```

<210> 10583

<211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10583

Ser Ile Lys Gln Gln Ala Val Gln Leu Ile Arg Leu Leu Ile Ile Leu
 1 5 10 15
 Leu Trp Gly Leu Trp Leu Phe Phe Leu Gln Pro Met Glu Val Pro Leu
 20 25 30
 His Ser Leu Leu Arg Gly Asp Leu Leu Val Phe Tyr Gln Arg Met Ala
 35 40 45
 Met Val Gln Ala Leu Trp Pro Val Leu Val Val Leu Val
 50 55 60

<210> 10584

<211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10584

Ser Ala Leu Leu Gly Asn Arg Phe Phe Ala Gln Gly Val Gly Asp Ile
 1 5 10 15
 Gln Pro Gly Val Thr His Val Gln Ala Leu Val Gln Thr Leu Ser Ala
 20 25 30
 Thr Ala Asp Lys Asp His Phe Leu Thr Gln Lys Glu Ala Arg Ala Ile
 35 40 45
 Ser Lys Ile Ile Ala Arg Gln Glu Ala Ala Lys Ala Gln
 50 55 60

<210> 10585

<211> 66
 <212> PRT
 <213> Enterobacter cloacae

<400> 10585

Phe His Val Ile Phe Arg Ile Arg Lys Ser Asn Leu Thr Ile Phe Met
 1 5 10 15
 Leu Arg Lys Phe Gly Pro Phe Phe Arg Met Lys Tyr Gln His Leu Leu
 20 25 30
 Asn Pro Val Arg Ser Leu Leu Ile Leu Cys Gly Phe Asn Arg Ile Phe
 35 40 45
 Pro Val Asn Asn Ser Val Gly Phe Ser Ala Ile Phe Gly His Lys Leu
 50 55 60
 Met
 65

<210> 10586

<211> 76
 <212> PRT
 <213> Enterobacter cloacae

<400> 10586

Val Ile Val Gly Ile Gln Arg His Lys Pro Gly Val Ala Ala Ile Ala
 1 5 10 15
 Asp Val Asn Gly Ala Asp Gly Arg Arg Ala Val Arg Tyr Arg Leu Pro
 20 25 30
 Asp Pro Asn Ala Arg Lys Leu Leu Ala Gly Ser Leu Gly Gln Arg Asp
 35 40 45
 Gly Ala Gly Ile Glu Ala Gly Met Ile Gly Arg Leu Arg Arg Asn Arg
 50 55 60
 Leu Asn Lys Met His Arg Lys Leu Ala Phe Gly

65

70

75

<210> 10587

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10587

```

Ile Ala Trp Tyr Ser Ala Arg Tyr Arg Cys Asn Phe Ile Thr Met His
1      5      10      15
Cys Thr Ala Phe Thr Arg Phe Leu Lys Pro Leu Ala Leu Asn Val Ala
      20      25      30
Cys Asp Thr Val Ile Phe Arg Arg Leu Gly His Tyr Ala Arg Leu Met
      35      40      45
Thr Gln Gln Thr Ser Ile Leu Cys Ala Thr Gly Ser Glu Gln Asn Pro
      50      55      60
Thr Ser Ile Lys
65

```

<210> 10588

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10588

```

Arg Ala Ser Gly Val Asn Val Pro Leu Ala Gly Asp Lys Ala Asn Glu
1      5      10      15
Gly Glu Met Asp Ile Ser Val Asp Ser Lys Thr Gly Ser Lys Pro Val
      20      25      30
Met Glu Ser Asn Ser Arg Ile Ile Leu Ala Ala Asp Ala Ala Leu Ala
      35      40      45
Ala Ile Asn Glu His Phe Ser Asp Glu Phe Val Lys Gly Glu Trp Ala
      50      55      60
Asp Tyr Ala Ala Leu Arg Arg Ala Ala Leu Arg Thr Ala Leu Ala Ser
65      70      75      80
Leu Ile

```

<210> 10589

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10589

```

Met Pro Asp Ala Ser Asp Tyr Phe Ser Cys Asn His Ile Phe Gly Phe
1      5      10      15
Thr Val Arg Lys Val Gly Asp Leu Asp Thr Val Ile Val Ser Asn Pro
      20      25      30
Ile Ile Ser Leu Phe His Asn Ser Pro Leu Lys Leu Phe His Leu Glu
      35      40      45
Val Tyr Met Thr Ile Gln Asn Pro Val Val Asp Lys Thr Phe Phe
      50      55      60

```

<210> 10590

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 10590

```

Lys Thr Asn Ile Ile Lys Met Ile Gln Ser Gln Leu Thr Gln Val Ile
1      5      10      15

```

Phe Trp Leu Gly Leu Ile Ala Ala Leu Pro Ala Phe Tyr Arg Phe Val
 20 25 30
 Tyr Ala Gly Ser Ser Leu Ile Trp His Lys Tyr Phe Pro Val Lys Lys
 35 40 45
 Ile Glu Ile Gln Leu Val Asn Glu Asp Lys Ala Leu Ile Glu Asn Ile
 50 55 60
 Val Leu Asp Leu Asp Lys Gln Asp Ala Lys Arg Val Ile Glu Leu Ile
 65 70 75 80
 Glu Ser Ser Arg Lys Lys Gly Lys Val Arg
 85 90

<210> 10591

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 10591

Asn Arg Lys Val Met Glu Lys Thr Thr Ser Phe Lys Val Phe Tyr Asp
 1 5 10 15
 Ala Asp Asp Lys Glu Leu Ser Lys His Ala Ile Asp Ala Glu Thr Leu
 20 25 30
 Gly Asn Ser Ile Leu Ser Met Ala Asn Leu Ile Ser Lys Ala Asp Asp
 35 40 45
 Leu Ile Asn Glu Gly Gly Lys Ser Val Lys Val Leu Phe Ser Ala Pro
 50 55 60
 Val Glu Lys Gly Ser Val Gly Val Ala Tyr Thr Val Val Gln Leu Leu
 65 70 75 80
 Pro Asp Ala Ile Asp Val Leu Lys Thr Ile Gly Ile Val Gly Ala Val
 85 90 95
 Gly Thr Ala Val His Ala Ser Ala Leu Ser Leu Ile Arg His Leu Gly
 100 105 110
 Ser Lys Lys Val Ile Ser Val Thr Arg His Thr Gly Lys Lys Lys Gly
 115 120 125
 Ile Ala Thr Leu Glu Leu Asp Gly Glu Asp Ile Glu Cys Ser Ala Pro
 130 135 140
 Val Ala Ala Leu Val Thr Asp Pro Ala Ile Arg Asn Ala Leu Ile Ala
 145 150 155 160
 Val Val Gln Lys Pro Leu Glu Gly Lys Asp Ser Pro Val Phe Lys Ile
 165 170 175
 Val Asp Ser Lys Gly Lys Glu Ile Val Arg Leu Glu Gly Asp Glu Thr
 180 185 190
 Glu Glu Ile Lys Pro Val Pro Lys Gly Thr Leu Leu Glu Lys Asp Val
 195 200 205
 Glu Ile Lys Glu Val Asn Val Lys Phe Thr Gln Val Asn Phe His Ser
 210 215 220
 Glu Lys Gly Trp Arg Met Glu Tyr Lys Asn Glu His Ser Val Leu
 225 230 235 240
 Leu Thr Asp Tyr Glu Phe Leu Ala Lys Val Arg Gly Ala Glu Gly Thr
 245 250 255
 Ile Thr Ser Glu Asp Leu Phe Ser Val Ser Leu Glu Ile Thr Lys Thr
 260 265 270
 Thr Ser Ala Arg Ala Ser Ala Glu Lys Tyr Val Ile Lys Lys Val Ile
 275 280 285
 Arg His Arg Val Ala Gln Gly Lys Lys Leu Ile
 290 295 300

<210> 10592

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10592

Thr Phe Phe Leu Phe Trp Tyr Ser Trp Phe Ile Ser Pro Val Asp Phe
 1 5 10 15
 Gln Cys Arg Thr Pro Leu Ala Asn Leu Pro Thr Arg Cys Phe Gly Lys
 20 25 30
 Ile Leu Val Ala Leu Ala Val Met Leu Ala Gly Cys Ala Ile Gln Phe
 35 40 45
 Asp Gln Met Ala Tyr Thr Ala Leu Asn Ser Met Asn Val Val Leu Trp
 50 55 60
 His
 65

<210> 10593

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10593

Ser Asn Pro His Thr Glu Glu Ile Ala Met Lys Glu Gly Phe Tyr Trp
 1 5 10 15
 Ile Gln His Asn Gly Leu Val Gln Val Ala Tyr Tyr Thr Asp Gly Ile
 20 25 30
 Thr Glu Asp Leu Glu Thr Gly Gln Thr Ile Thr Gly Val Trp His Leu
 35 40 45
 Thr Arg Gly Asp Asp Ile Cys His Asn Gly Glu Ala Glu Val Ile Glu
 50 55 60
 Gly Pro Leu Ser Ala Pro Leu Lys
 65 70

<210> 10594

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 10594

Glu Asp Ser Gln Gln Tyr Glu Gly Gly Pro Met Ser Asp Pro Phe Ser
 1 5 10 15
 Gly Thr Gly Leu Ala Gly Leu Ala Leu Thr Gly Ala Ser Val Tyr Gly
 20 25 30
 Leu Leu Thr Gly Thr Asp Tyr Gly Val Val Phe Gly Ala Phe Ala Gly
 35 40 45
 Ala Val Phe Tyr Ile Ala Thr Ala Ala Asp Leu Ser Val Leu Arg Arg
 50 55 60
 Leu Ala Tyr Phe Phe Val Ser Tyr Ile Val Gly Ile Leu Cys Ser Gly
 65 70 75 80
 Leu Leu Gly Ser Lys Leu Thr Ser Trp Thr Gly Tyr Thr Glu Lys Pro
 85 90 95
 Leu Asp Ala Ile Gly Ala Val Ile Ala Ser Ala Leu Ala Val Gln Ile
 100 105 110
 Leu Thr Phe Leu Asn Lys Gln Asp Ile Gly Ser Leu Val Ala Leu Ile
 115 120 125
 Thr Arg Arg Gly Gly Ser Gly Gly Thr Lys
 130 135

<210> 10595

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 10595

Arg Ala Gly Glu Val Gln Val Val Leu Asn Asp Pro Thr Ala Thr Ile

```

1           5           10           15
Asn Ala Leu Leu Cys Ala Gly Val Val Ile Thr Leu Met Phe Tyr Arg
      20           25           30
Arg Gly Asp Ser Arg His Arg Pro Trp Ile Ser Arg Leu Ala Trp Leu
      35           40           45
Ile Thr Val Thr Tyr Ser Ala Val Pro Leu Ala Tyr Leu Cys Gly Ile
      50           55           60
Tyr Pro His Ser Ser Trp Ala Thr Ile Ala Ala Asn Ile Ile Phe Leu
      65           70           75           80
Ser Val Leu Val Ala Val Lys Gly Asn Val Ala Cys Leu Val Val Leu
      85           90           95

```

<210> 10596

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 10596

```

Arg Met Asn Ser Leu Asn Arg Leu Arg Pro Ala Lys Gln Phe Arg Cys
1           5           10           15
Val Pro Leu Val Gly Lys Asp Ser Pro Phe Gly Tyr Val Glu Arg Leu
      20           25           30
Asn Asn Gln Ala Asp Glu Asn Asn Tyr Gln Pro Val Asn Ala Met Val
      35           40           45
Glu Ala Phe Ala Leu Met Asn Glu Lys Gly Arg Glu Glu Trp Leu Lys
      50           55           60
Leu Ile Gly Asp Ser Glu Thr Thr Glu Ala Ser Pro Ser Thr Ser Ser
      65           70           75           80
Asp Gly Ser Pro Arg Pro Asp Ala Leu Tyr Thr Phe Ala Lys Gly Thr
      85           90           95
Ile Met Ser Ala Ser Ala Leu Leu Ser Asn Ser Ser Val Asn Leu Gln
      100           105           110
Ser

```

<210> 10597

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 10597

```

Arg Thr Gly Arg Ile Thr Val Met Asn Asn Ser Gln Arg Gln Leu Arg
1           5           10           15
Leu Leu Asn Leu Val Arg Lys Leu Leu Lys Leu Gly Arg Ser Asn Ser
      20           25           30
Asn Ala His Glu Ala Gly Leu Ala Leu Gln Arg Ala Gln Lys Leu Met
      35           40           45
Ala Arg Tyr Gly Ile Ser Glu Leu Asp Ala Gly Leu Thr Ser Val Arg
      50           55           60
Glu Ala Ser Ser Arg Thr Ala Pro Ser Asp Ala Glu Lys Val Pro Glu
      65           70           75           80
Trp Met Val Thr Leu Val Arg Gly Val Cys His Ala Phe Gly Cys Arg
      85           90           95
Ala Tyr Tyr Ser Trp Arg Gln Thr Ser Ala Gly Tyr Arg Arg Ser Val
      100           105           110
Thr Phe Tyr Gly Phe Ser Glu Lys Pro Glu Ile Ala Ala Tyr Ala Phe
      115           120           125
Asp Val Leu Thr Arg Gln Leu Lys Asp Ala Thr Asn Ser Tyr Leu Lys
      130           135           140
Thr Gln Ser Lys Arg Leu Lys Leu Ala Thr Arg Arg Ala Arg Ala Glu
      145           150           155           160

```

```
<210> 10598
<211> 199
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10599
<211> 126
<212> PRT
<213> Enterobacter cloacae
```

<400> 10599																
Arg	Ala	Gly	Arg	Asp	Asp	Ala	Gly	Cys	Arg	Thr	Asp	Glu	Arg	Leu	Ala	
1				5					10					15		
Asp	Val	Gly	Leu	Ala	Cys	Gly	Pro	Trp	Leu	Ala	Gln	Asp	Pro	Ala	Ala	
			20					25					30			
Phe	Ser	Gly	Thr	Asn	Ala	Gly	Lys	Glu	Asp	Gly	Met	Lys	Tyr	Arg	Met	
		35					40					45				
Val	Ala	Pro	Gly	Leu	Arg	Ala	Pro	His	Gly	Thr	Pro	Pro	Gln	Cys	Cys	
		50				55					60					
Gln	Lys	Ala	Leu	Arg	Gln	Val	Arg	Arg	Phe	Arg	Gln	Gly	Ala	Arg	Asn	

65 70 75 80
 Tyr Thr Arg Leu Asp Glu Lys Gly Cys Gly Tyr Tyr Lys Ile Asp Leu
 85 90 95
 Gly Pro Phe Trp Arg Leu Leu Ser Arg Asn Glu Gly Arg Thr Trp Leu
 100 105 110
 Leu Leu Ser His Glu Arg Tyr Asn Ser Ala Ile Arg Lys
 115 120 125

<210> 10600

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10600

Gln Pro Arg Val Glu Gln Gln Pro Ala Gly Asn Gly Ile Met His Ile
 1 5 10 15
 Ser Gly Lys Gln Gln Ala Val Thr Tyr Pro Ala Ile Ile Pro Pro Gly
 20 25 30
 Thr Gly Arg Lys Ala Gly Ile His Phe Ile Gln Arg Ile Ser Asn Gln
 35 40 45
 Ala Phe Cys Arg Gln Thr His Tyr Phe Ser Phe Ser Ala Ala Ile Thr
 50 55 60
 Ala Val Leu Asn Cys Gln Tyr Ala
 65 70

<210> 10601

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10601

Glu Ser Arg Arg Ala Val Ser Ala Pro Ala Pro Pro Leu Arg Leu Ala
 1 5 10 15
 Ala Ser Ile His Gly Gln Ser Phe Ser Leu Gln Ala Leu Glu Lys His
 20 25 30
 Ala Ala Gln Asp Ser Thr Phe Ser Ser Asn Met Gly Met Arg Val Gly
 35 40 45
 Phe Tyr Glu Gly Ala Ser Glu Lys Ser Arg Cys Gly Arg Thr Gly Gln
 50 55 60
 Arg Asp Ala Tyr Phe Met Leu Leu Ala Arg Val Ser Thr Leu Trp Arg
 65 70 75 80
 Asn Ala Leu Thr
 85

<210> 10602

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 10602

Asn Leu Phe Ala Phe Val Ile Glu Met Ser Phe Gln Pro Asp Asp Trp
 1 5 10 15
 Leu Phe Arg His Cys Lys Ser Phe Val Arg Tyr Ser Val Pro Ala Phe
 20 25 30
 Ile Ser Glu Thr Phe Phe Asn Asn Ala Gly Tyr Asp Arg Val Val Phe
 35 40 45
 Ser Ile Phe Arg Ser Trp His Lys Asp Phe Lys Leu Cys Arg Cys Ile
 50 55 60
 Arg Leu Lys Gln Asn Gly Ile Glu Thr Arg Arg Ile Lys Gln Ser Ala
 65 70 75 80
 Phe Arg Ile Asn Glu Leu Asn Pro Gly Ala Phe Val Val Arg Ile Leu

```
<210> 10603
<211> 89
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10604
<211> 76
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10605
<211> 175
<212> PRT
<213> Enterobacter cloacae
```

<400> 10605																
Pro	Val	Asp	Ser	Phe	Cys	His	Asp	Tyr	Ser	Arg	Thr	Asn	Arg	Arg	Asn	
1				5					10					15		
His	Ile	Met	Thr	Lys	Tyr	Tyr	Asp	Arg	Ser	Gly	Ile	Glu	Ile	Ser	Ser	
			20					25					30			
Ala	Lys	Ile	Arg	Cys	Val	Asp	Ser	Val	Lys	Gly	Thr	Ala	Glu	Tyr	Thr	
		35					40					45				
Phe	Arg	Ile	Val	Cys	Asp	Lys	Cys	Asn	Gly	Arg	Gly	Glu	Arg	Lys	His	
	50					55					60					
Phe	Tyr	Arg	Ser	Arg	Cys	Met	Ala	Cys	Lys	Ala	Thr	Gly	Tyr	Ser	Leu	
65					70					75					80	
Glu	Thr	Thr	Arg	Thr	Ala	Tyr	Thr	Leu	Asn	Ala	Leu	Tyr	Arg	Ile	Asn	

				85					90					95			
Ala	Gln	Ala	Ala	Arg	Lys	Val	Ser	Ala	Ser	Leu	Gln	Asp	Glu	Arg	Leu		
			100					105					110				
Arg	Thr	Glu	Ser	Ala	His	Ser	Ser	Ala	Phe	Thr	Ala	Trp	Cys	Arg	Ser		
		115					120					125					
His	Gln	Lys	Met	Val	Asp	Ala	Ile	Thr	Gln	Gln	Ser	Ser	Ser	Asn	Asn		
	130					135					140						
Phe	Leu	Glu	Ser	Leu	Lys	Ser	Ser	Leu	Thr	His	Gln	Arg	Gln	Leu	Ser		
145					150					155					160		
Asp	Lys	Gln	Leu	Ala	Val	Ala	Ala	Arg	Ile	Leu	Gly	Ile	His				
				165					170					175			

<210> 10606

<211> 402

<212> PRT

<213> Enterobacter cloacae

<400> 10606

Ile	Ala	His	Pro	Leu	Arg	Leu	Lys	Met	Lys	Leu	Phe	Ser	Ile	Ser	Ser		
1				5					10					15			
Arg	Asp	Thr	Ser	Met	Asp	Ala	Met	Phe	Tyr	Ile	Gln	Ala	Ser	Thr	Lys		
			20					25					30				
Gln	Gln	Ala	Ser	Tyr	Ile	Phe	Ser	Thr	Leu	Ser	Pro	Lys	Pro	Ile	Ala		
		35				40					45						
Asn	Cys	Gln	Leu	Thr	Asp	Leu	Gln	Asn	Glu	Thr	Val	Val	Pro	Ser	Ile		
	50					55					60						
Ser	Pro	Ile	Ser	Leu	Ser	Leu	Asn	Pro	Trp	Ser	Ile	Asn	Ser	Gln	Ser		
65					70				75					80			
Arg	Thr	Arg	Glu	Leu	Arg	Met	Ala	Thr	His	Gly	Leu	Asn	Leu	Ile	Cys		
				85					90					95			
Ala	Val	Thr	Asp	Glu	His	Thr	Arg	Gln	Ile	Val	Asp	Phe	Cys	Asp	Asn		
			100					105					110				
Leu	Gly	Gln	Gln	Leu	Lys	Asp	Pro	Asp	Asp	Lys	Ser	Ala	Trp	Val	Lys		
		115				120						125					
Leu	Ile	Asn	Ser	Glu	Cys	Ala	Leu	Leu	Asn	Ser	Pro	Arg	Leu	Tyr	Pro		
	130					135					140						
Val	Leu	Leu	Glu	Pro	Asp	Thr	Pro	Ala	Gln	Phe	Glu	Ile	Phe	Val	Pro		
145					150					155					160		
Ala	Pro	Glu	Asp	Gly	Glu	His	Asp	Thr	Val	Ile	Ala	Ser	Val	Val	Lys		
				165					170					175			
Glu	Cys	Phe	Gly	Asp	Glu	Cys	Arg	Tyr	Arg	Val	Thr	Asp	Lys	Ala	Phe		
		180						185					190				
Ala	Met	Ser	Glu	Lys	Pro	Val	Ile	Arg	Leu	Glu	Ala	His	Phe	Asn	Asp		
		195						200				205					
Lys	Arg	Glu	Lys	Val	Leu	Glu	Leu	Thr	Phe	Ser	Cys	Phe	Asn	Leu	Ser		
	210					215					220						
Leu	Ser	Ala	Ser	Val	His	Glu	Asn	Gln	Leu	Arg	Gln	Ile	Leu	Leu	Leu		
225					230					235				240			
Cys	Glu	Asp	Phe	Gly	Val	Arg	Leu	Gln	Gly	Arg	Ala	Gly	Ala	Ser	Cys		
			245						250					255			
His	Val	Asn	Met	Arg	Ser	Ala	Tyr	Arg	Arg	Leu	Ala	His	Val	Gly	Thr		
		260						265					270				
Gly	Ser	Arg	Pro	Gly	Asp	Asp	Ser	Asp	Val	Arg	Val	Tyr	Thr	Ser	Leu		
		275						280				285					
Lys	Glu	Glu	Lys	Asp	Val	Lys	Arg	Leu	Leu	Asp	Lys	Ser	Thr	Arg	Gly		
	290					295					300						
Ser	Glu	Leu	Val	Pro	Ala	Arg	His	Gly	Gln	Gln	Phe	Asn	Gly	Val	Leu		
305					310					315				320			
Val	Asn	Ala	Thr	Pro	Ala	Ser	Ala	Thr	Gly	Phe	Ile	Tyr	Leu	Ser			
				325					330					335			
His	Asp	Phe	Pro	Glu	Gly	Gln	Phe	Met	Met	Thr	Ala	Glu	Val	Leu	His		


```
<210> 10607
<211> 94
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10608
<211> 147
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10609
<211> 238
<212> PRT
<213> Enterobacter cloacae
```

<400> 10609

```

Ile Ile Lys Glu Ser Thr Val Ala Asp Asn Tyr Thr Gln Ala Ser Phe
1      5      10
Ile Ile Pro Cys Thr Gln Glu Gln Ala Lys Met Ala Gln Glu Ala Ile
20      25      30
Thr Phe Val Thr Glu Ala Glu Ile Ala Glu Gly Glu Arg Leu Leu Asp
35      40      45
Lys Pro Leu Thr Asp Cys Ser Leu Thr Glu Lys Leu Ile Leu Ser Ile
50      55      60
Ile Glu Asn His Pro Glu Tyr Asp Pro Ser Glu Pro Ser Phe Gly Gln
65      70      75      80
Pro Ser Cys Pro Asp Cys Asn Tyr Glu Leu Leu Phe Ala Thr Glu Val
85      90      95
Thr Ser Ser Gly Leu Ala Val Phe His Gly Glu Thr Ile Asp Leu Asp
100      105      110
His Ala Ile Cys Leu Thr Thr Ala Val Leu Ser Val Phe Asp Leu Ser
115      120      125
Glu Met Val Thr Ile Thr Ala Ala Phe Thr Cys Ser Lys Ser Arg Thr
130      135      140
Asp Glu Phe Gly Gly Met Thr Ile Leu Val Thr Lys Asp Thr His Tyr
145      150      155      160
Tyr Gln Asp Gly Cys Gln Phe Ser Arg Leu Met Asn Glu Ala His Lys
165      170      175
Ala Gly Ile Gln Tyr Ala Leu Cys Lys Val Thr His Tyr His Gly Glu
180      185      190
Ser Ser Tyr Val Ala Ser Tyr Val Leu Ser Cys Asp Val Ala Asp Ser
195      200      205
Ala Gln Glu Val Val Asn Lys Arg Leu Lys Ala Cys Ala Gly Lys Glu
210      215      220
Pro Glu Glu Ser Ser Pro Arg Gly Trp Lys Glu Pro Arg Tyr
225      230      235

```

<210> 10610

<211> 545

<212> PRT

<213> Enterobacter cloacae

<400> 10610

```

Arg Ala Leu Thr Leu Pro Val Tyr Phe Ser Gly Leu Asp Arg Tyr Ile
1      5      10
Thr Leu Ser Leu Leu Lys Ser Asp Gly Ser Leu Ile Trp Ser Thr Lys
20      25      30
Ser Ser Leu Val Thr Val Asp Asp Arg Thr Thr Ser Ser Thr Gly Phe
35      40      45
Asp Tyr Tyr Gly Lys Thr Leu Thr Val Pro Ala Met Gly Glu Asp Ser
50      55      60
Phe Thr Leu Arg Glu Val Ile Thr Asp Leu Gln Gly Lys Glu Val Ser
65      70      75      80
Arg Gln Asp Tyr Pro Leu Ala Ile Asp Arg Thr Pro Pro Ala Thr Gly
85      90      95
Thr Ile Ser Tyr Thr Arg Asn Gly Trp Asn Phe Gly Ser Glu Ala Ile
100      105      110
Phe Thr Ser Val Pro Ala Gly Met Gln Tyr Ala Ser Val Gln Ala Leu
115      120      125
Val Phe Asn Gly Leu Ser Asp Lys Gly Ser Gly Leu Ala Asn Ala Glu
130      135      140
Tyr Phe Ile Thr Asp Ala Ala Gly Val Glu Arg Lys Lys Pro Ala Glu
145      150      155      160
Ile Asn Thr Val Glu Gly Ser Val Thr Val Gln Val Ala Asp Ala Ser
165      170      175
Ser Asn Ala Leu Ala Pro Glu Asn Arg Ser Glu Tyr Lys Val Gly Ile

```

```

      180      185      190
Tyr Leu Tyr Asp Lys Ala Gly Asn Arg Ser Glu Leu Ser Arg Arg Ser
      195      200      205
Val Ile Asp Arg Val Lys Pro Asp Asp Ile Ile Gln Val Gln Asp Ala
      210      215      220
Thr Thr Gly Ser Trp Val Ser Tyr Gln Ser Gly Met Thr Val Phe Gln
225      230      235
Asn Pro Ile Ser Val Arg Val Leu Arg Lys Lys Ser Asp Phe Thr Ala
      245      250      255
Val Asn Gly Ser Lys Tyr Gly Trp Ala Asp Ser Asn Phe Gln Thr Ser
      260      265      270
Asp Ser Thr Tyr Asn Ile Tyr Thr Phe Lys Tyr Ile Tyr Pro Asn Val
      275      280      285
Gly Asp Thr Tyr His Glu Phe Gln Thr Leu Ala Gly Gly Val Arg Arg
      290      295      300
Ile His His Asn Ser Leu Asn Phe Thr Pro Ala Pro Ala Met Glu Ile
305      310      315
Ala Pro Lys Ile Val Ala Lys Glu Met Tyr Arg Ser Asp Thr Ser Glu
      325      330      335
Trp Leu Thr Gln Ala Ser Ile Ser Val Lys Thr Ala Thr Ile Ser Arg
      340      345      350
Ile Lys Val Thr Ala Glu Pro Arg Pro Tyr Val Gln Lys Phe Arg Thr
      355      360      365
Val Lys Asn Ala Ala Trp Phe Cys Thr Ile Pro Val Gly Gln Ser Ser
      370      375      380
Cys Glu Met Thr Val Asn Phe Asn Tyr Thr Ser Asp Lys Gly Phe Glu
385      390      395
Tyr Leu His Leu Tyr Ser Gly Lys Asp Gly Asp Ser Ile Phe Asp Ala
      405      410      415
Leu Ala Gly Asn Phe Thr Val Ile Trp Asp Asn Asn Pro Pro Val Val
      420      425      430
Asn Val Ala Gln Val Asn Lys Ala Ser Lys Thr Ile Thr Met Thr Ala
      435      440      445
Thr Asp Asn Asp Arg Val Asn Ala Trp Asn Ile Ser Tyr Trp Asp Thr
      450      455      460
Lys Val Phe Glu Ala Thr Leu Lys Asn Ala Arg Gly Glu Thr Phe Thr
465      470      475
Leu Lys Pro Val Thr Val Ser Glu Ser Asp Tyr Lys Thr Lys Asn Ala
      485      490      495
Thr Phe Ser Tyr Ala Gly Leu Pro Asp Gly Asp Tyr Thr Val Val Ser
      500      505      510
Val Ser Ala Thr Asp Leu Gly Gly Lys Leu Arg Asn Gln Thr Ala Tyr
      515      520      525
Gly Pro Ala Glu Asn Ser Leu Asn Ala Ser Gly Tyr Cys Val His Leu
      530      535      540

```

545

<210> 10611

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10611

```

Asn Ala Ser Val Leu His Pro Ala Phe Asn Glu Gly His Trp Leu Phe
1      5      10      15
Ile Ala Glu Gln Asp Asn Arg Tyr Ile Glu Val Val Cys Ile Leu Ser
      20      25      30
Leu Ala Ser Glu Ser Gly Glu Gln His Ile Asp Val Phe Ile Asn Met
      35      40      45
Phe Glu Asp Pro Ile Asp Asp Val Ile Ser Arg Asn Ile Glu Thr Lys

```

50					55					60					
Thr	Phe	Ala	Thr	Leu	Tyr	Lys	Tyr	Ile	Glu	Arg	Ile	Pro	Phe	Thr	Pro
65					70					75					80
Gly	Val	Lys	Lys	Glu	Phe	Leu	Ser	Ser	Ile	Glu	Asn	Ile	Asn	Phe	Ser
				85					90					95	

<210> 10612

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 10612

Arg	Trp	Thr	Asp	Met	Lys	Ser	Asp	Thr	Glu	Met	Val	Ser	Pro	Ile	Glu
1				5					10					15	
Leu	His	Ile	Gly	Asp	His	Val	Gln	Arg	His	Gly	Ala	Leu	Phe	Glu	Val
			20					25					30		
Met	His	Ile	Val	Glu	Ser	Glu	Cys	Asp	Ile	Pro	Gly	Gly	Ile	Arg	Val
		35					40					45			
Ala	Ala	Cys	Ile	Ser	Arg	Val	Ile	Gly	Asp	Val	Thr	Gly	Asn	Ile	Pro
	50					55					60				
Arg	Gly	Trp	Leu	Glu	Thr	Pro	Lys	Arg	Met	Ala	Glu	Arg	Gly	Val	Lys
65					70				75					80	
Trp	Ala	Thr	Ser	Leu	Pro	Glu	Gly	Leu	Tyr	Phe	Asn	Ile	Gln	Gly	Asn
				85				90						95	
Ala	His	Ala	Lys	Val	Ser	Arg	Val	Ile	Arg	Asn	Val	Thr	Asn		
			100					105					110		

<210> 10613

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 10613

Leu	Ser	Val	Lys	Ala	Ile	Ile	Lys	Pro	Lys	Thr	Pro	Leu	Ser	His	Thr
1				5					10					15	
Leu	Val	Tyr	Arg	Thr	Gly	Ile	Ile	Arg	Leu	Leu	Ala	Cys	Leu	Pro	Arg
			20					25					30		
Ile	Leu	Val	Gly	Asn	Ser	Gly	Thr	Lys	Pro	Leu	Met	Ala	Pro	Leu	Lys
		35					40					45			
Ile	His	Ser	Thr	Leu	Pro	Val	Ile	Ala	Phe	Thr	Phe	Asn	Gly	Ala	Asp
	50					55					60				
Ala	Glu	Arg	Lys	Leu	Val	Lys	Gly	Leu	Glu	Asn	Leu	Arg	Ile	Ser	Val
65					70				75					80	
Thr	Asp	Ala	Ser	Gly	Asp	Ala	Ser	Leu	Ile	Ser	Leu	Gln	Leu	Ala	Gly
			85					90						95	
Gly	Pro	Asn	Ser	Glu	Lys	Val	Thr	Leu	Ala	Phe	Thr	Pro	Leu	Ser	Lys
			100					105					110		
Asp	Val	Phe	Ile	Pro	Glu	Tyr	Pro	Arg	Ile	Phe	Pro	Asn	Thr	Asp	Glu
		115					120					125			
Ser	Gly	Gln	Met	Tyr	His	Leu	Glu	Ala	Leu	Ala	Ile	Asp	Glu	Ser	Gly
	130					135					140				
Asn	Arg	Thr	Thr	Lys	Thr	Leu	Asn	Phe	Thr	Tyr	Gln	Pro	Ala	Asn	Leu
145					150					155				160	
Ile	Met	Leu	Asp	Asn	Leu	Lys	Thr	Leu	Ala	Thr	Ala	Val	Ala	Leu	Lys
				165					170					175	
Ala	Thr	Asp	Asn	Thr	Pro	Leu	Ala	Ile	Ile	Arg	Thr	Ser	Val	Leu	Arg
			180					185					190		
Arg	Gln	Asp	Gly	Ser	Ile	Ile	Thr	Gly	Gln	Leu	Asn	Gly	Thr	Leu	Thr
		195					200					205			

Val Gln Lys Asn Ala Gln Phe Gly Val Thr Val Ala Gly Val Thr Val
 210 215 220
 Gln Pro Gly Glu Thr Lys Ser Leu Ser Leu Asp Leu Gly Asn Gly Glu
 225 230 235 240
 Glu Arg Thr Tyr Pro Val Thr Pro Ala Val Ser Gly Gln Ser Gly Thr
 245 250 255
 Ala Thr Phe Thr Ile Glu Phe Pro Gln Thr
 260 265

<210> 10614

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 10614

His Glu Tyr Glu Arg Ser Arg Val Met Ser Asn Asn Thr Glu Val Ile
 1 5 10 15
 Ser Cys Asp Leu Phe Ser Thr Leu Ser Ser Leu Asn Phe Ser Thr Glu
 20 25 30
 Asp Ile Thr Gly Leu Thr Pro Ala Asn Phe Arg Lys Gly Ala Phe Leu
 35 40 45
 His Ala Lys Ile Ser Ala Ser Gln Ala Thr Arg Ala Thr Asp Ile Ser
 50 55 60
 Ile Gln Leu Leu Thr Asp Arg Val Ser Gly Glu Met Asn Tyr Val Ile
 65 70 75 80
 Val Ile Gly Arg His Glu Gly Leu Leu Ser Glu Ala Ile Asp Pro
 85 90 95
 Asn Ala Asp Lys Gln Tyr Arg Glu Asn Arg Tyr Ser Arg His Phe Ile
 100 105 110
 Ser Val Thr Asp Ala Asn Thr Lys Ala Leu Lys Lys Thr Cys Lys Val
 115 120 125
 Met Lys Thr Tyr Ile Lys Glu Gln Ala Phe Lys Pro Asn Thr Trp Gly
 130 135 140
 His Ser Phe Ile Lys Gly
 145 150

<210> 10615

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 10615

Val Gln Arg Asn Asn Ile Thr Gly Ile Leu Val Ala Leu Met Lys Ser
 1 5 10 15
 Cys Phe Ser Asp Leu Pro Val Lys Asp Gly Thr Ser Gly Thr Trp Lys
 20 25 30
 Leu Asp Thr Phe Glu Ile Thr Ala Asp Lys Ala Met Ser Leu Ala Leu
 35 40 45
 Arg Ala Glu Tyr Thr Gly Asn Thr Asp Glu Phe Ile Pro Pro Gly Arg
 50 55 60
 Tyr Arg Arg Leu Ser Asn Gly Trp Asp Val Val Met Ser Asn Thr Pro
 65 70 75 80
 Met Glu Ile Arg Thr Cys Gln Asp Phe Leu Glu Arg Ala Thr Gly Arg
 85 90 95
 Val Leu Ile Asn Gly Leu Gly Leu Gly Met Val Leu His Ala Ile Leu
 100 105 110
 Gln Lys Glu Asp Val Thr His Val Thr Val Ile Glu Lys Glu Gln Asp
 115 120 125
 Val Ile Asn Leu Val Ala Ala Ser Phe Ala Asn Asp Pro Arg Val Glu
 130 135 140
 Ile Ile His Ala Asp Ala Met Met Tyr Cys Pro Pro Ala Gly Val Thr

```
<210> 10616
<211> 130
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10617
<211> 80
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10618
<211> 74
<212> PRT
<213> Enterobacter cloacae
```

<400> 10618
Cys Val Ile Thr His Lys His Ile Thr Ser Gly Val Ile Asp Val Ser
1 5 10
Thr His Lys Asn Glu Arg Arg Gly Asn Pro Pro Phe Gln Phe Arg Leu

```

          20          25          30
Asp Pro Glu Leu Arg Glu Met Met Glu Arg Ala Gln Gln Gln Asp Gly
          35          40          45
Asp Glu Ser Leu Ala Ala Trp Leu Lys Arg Ile Ile Arg Lys Glu Leu
          50          55          60
Gln Gln Arg Gly Ile Glu Pro Lys Gly
65          70

```

<210> 10619

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 10619

```

Asn Gly Lys Leu Ser Cys Arg Gly Gly Ser Gln Pro Gly Gln Ser Gly
1          5          10          15
Ile Gly Ile Ser Gly Glu Ser Gln Gly Gln Ala Met Thr Ala Ile
          20          25          30
Tyr Asn Leu Val Arg Cys Ser Asp Gly Lys Thr Val Phe Ser Phe Pro
          35          40          45
Ala Gly Gly Arg Tyr Leu Val Asp Thr Ser Asn Gly Leu Gln Ser Met
          50          55          60
Arg Pro Leu Met Asp Asn Glu Ile Leu Phe Thr Val Glu Ser Ala Ala
65          70          75          80
Arg Phe Leu Lys Lys Ile Gly Tyr Gln Val Ile Pro Pro Ala Ser
          85          90          95

```

<210> 10620

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10620

```

Pro Gly Asn His Pro Asn Leu Ser Pro Ala Gly Glu Gln Gly Arg Gly
1          5          10          15
Tyr Pro Asp Thr Pro Arg Tyr Gly Gly Lys Arg Met Lys Lys Pro Thr
          20          25          30
Gln Asn Glu Ser Ile Ala Met Leu Thr Thr Ser Ala Gly Gln Ala Leu
          35          40          45
Glu Tyr Ser Arg Gln Ala Leu Ala Val Leu Asp Met Trp Ile Asp Thr
          50          55          60
Leu Ala Pro Asp Asp Glu Met Glu Ser Phe Arg Val Ala Ala Val His
65          70          75          80
Ser Leu Val Ser Gln Ala Ser Glu Tyr Leu Val Lys Val Arg Glu Val
          85          90          95
Arg Pro

```

<210> 10621

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 10621

```

Ile Ala Ile Asn Cys Ser Ile Val Ala Ile Asn Gly Ile Leu Thr Ile
1          5          10          15
Ala Ile Thr Gly Gly Ile Met Thr Lys Val Asn Val Lys Pro Val Leu
          20          25          30
Leu Asn Arg Glu Gln Ile Gln Ala Leu Lys Thr Ile Gln Glu Arg Glu
          35          40          45
Arg Gln Lys Ser Gly Met Gly Ile Ala Pro Ser Ile His Ala Val Ala

```

50 55 60
 Arg Lys Val Phe Asp Ala Gly Leu Ser Lys Met Glu Ala Gly Gln
 65 70 75 80

<210> 10622

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 10622

Arg Lys Met Ala Met Asn Lys Lys Ala Glu Arg Arg Arg Asp Phe Tyr
 1 5 10 15
 Pro Ala Glu Ser Met Leu Asn Gln Pro Phe Gly Ser Ile Pro Arg Cys
 20 25 30
 Trp Ser Ser Leu Arg Ile Ile Leu Leu Ser His Ala Ala Arg Asp Ser
 35 40 45
 Ser Pro Ser Cys Cys Cys Ala Arg Ser Ile Ile Ser Arg Ser Ser Gly
 50 55 60
 Ser Ser Leu Asn Trp Asn Gly Gly Leu Pro Arg Leu Ser Phe Leu Cys
 65 70 75 80
 Val Asp Thr Ser Ile Thr Pro Asp Val Met Cys Leu Cys Val Met Thr
 85 90 95
 His Tyr Thr Gln Glu Met Lys Lys Thr Thr Pro Arg Ser Ala Gly Thr
 100 105 110
 Leu Ser Gly Arg Leu Thr Lys Thr Leu Val Glu Val Thr Leu Trp Leu
 115 120 125
 Ala Leu Ser Leu Pro Lys His Ala Leu Asn Leu His Gly Val Phe Ser
 130 135 140
 Pro Trp Val Asn Ser Gln Ile Arg Ser Ser Met Leu Leu Leu Pro Pro
 145 150 155 160
 Ser Ala Lys Pro Ala Lys Lys Arg Gln Lys Asp Val Ser Val Phe Trp
 165 170 175
 Arg Val Asp Phe Val Leu Arg Arg Cys Ser Met Phe Asn Leu Gln Thr
 180 185 190
 Leu Thr Ala Lys Ala Arg Glu Leu Arg Gly Asn Val Val Lys Ala Thr
 195 200 205
 Thr Thr Lys Gly Thr Arg Thr Met Thr Pro Val Tyr Glu Arg Glu Glu
 210 215 220
 Gln Arg Lys Leu Arg Glu Arg Ile Gln Gln Thr Gln Pro Asp Trp Val
 225 230 235 240
 Leu Leu Trp Trp Asp Ile Ala Thr Val Thr Gly Trp Arg Thr Ser Asp
 245 250 255
 Val Cys Asn Phe Arg Tyr Ser Cys Ile Asn Trp Glu Thr Gly Ile Ala
 260 265 270
 Thr Ile Ile Val Ala Lys Gln Thr Lys Ala Ala Glu Ala Arg Ala Thr
 275 280 285
 Arg Lys Gly Ile Glu Ile Val Arg Gln Gln Arg Lys Asp Ala Ala Arg
 290 295 300
 Leu Ala Gly Asp His Ile Gly Tyr Met His Trp Asp Ser Val Ser Cys
 305 310 315 320
 Asp Glu Leu Ala Ala Gly Met Thr Glu Glu Glu Gln Ala Ile Val Phe
 325 330 335
 Glu Leu Val Ala Lys Ala Glu Val Lys His Asp Thr Lys Gln Leu Pro
 340 345 350
 Pro Gly Ile Ile Lys Arg Leu Arg Glu Arg Met Glu Arg Asn Leu Ile
 355 360 365
 Gly Asp Asp Leu Val Phe Ser Arg Ser Gln Ile Glu Ser Asn Arg Cys
 370 375 380
 Gln Ser Leu Glu Gly Ser Val Ser Arg Gln Thr Ile Trp Lys Lys Leu
 385 390 395 400
 His Asn Val Met Val Trp Phe Thr Arg Val Val Asn Lys Arg Leu Arg


```

          405                      410                      415
Leu Ser Ala Tyr Ser Ser Arg Lys Ile Ala Ala Phe Asn Leu Met Ser
          420                      425                      430
Ala Gly Gly Glu Gln Gly Leu Leu Val Ala Ser Glu Met Leu Gly His
          435                      440                      445
Ser Asn Pro Ala Ile Thr Arg Thr Tyr Leu Gln Leu Gly Ser Lys Ala
          450                      455                      460
Ala Ala Ile Gln Thr Arg Leu Ala Met Glu Val Asn Ala
          465                      470                      475

```

<210> 10623
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10623
Thr Gln Asn Glu Lys Lys Ala Ala Ile Ser Lys Lys Leu Ser Ala Ala
1      5      10
Phe Val Asp Glu Phe Tyr Leu Trp Gln Ala Gly Asn Leu Ser Cys Asp
20     25
Ser Ser Arg Leu Leu Cys Pro Ser Leu Arg Lys Tyr Phe His His Phe
35     40     45
Val Ile Ala Ile Phe Leu Leu Glu Phe Lys Met Lys Arg Thr Leu
50     55     60
Asn Gln Leu Thr Leu Val Ile Gln Gln Pro Leu Pro Ala Asp Asn Asn
65     70     75     80
Gly Thr Ile Ile Ala Ala Met Glu Ser Arg His Val Asn Ile Gln Ser
85     90     95
Val Leu Ile Ala Ser Gln Arg Leu Arg Gly Asn Asp Pro Thr Gly Glu
100    105    110
Leu Ala Ala Gln Ile Arg His Gln Arg Ile Ala
115    120

```

<210> 10624
 <211> 99
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10624
Asn Arg Arg Asp Ala Ala Arg Cys Val Arg Tyr Cys Thr Gly Ile Leu
1      5      10
Met Ser Arg Arg Lys Phe Leu Ile Leu Trp His Ile Tyr Ala Phe Ser
20     25
Tyr Leu Cys Ile Phe Ile Ala Phe Phe Ala Val Val Pro Glu Val Lys
35     40     45
Leu Phe Asp Tyr Leu Ser Ile Lys Tyr Gly Phe Ile Asp Ile Glu Arg
50     55     60
Trp Asp Ile Tyr Tyr Ser Ile Phe Ala Met Ser Thr Thr Val Ile Ile
65     70     75     80
Asn Phe Leu Phe Ile Leu Leu Thr Phe Arg Phe Thr Ser Lys Thr Lys
85     90     95
Lys Lys

```

<210> 10625
 <211> 71
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 10625
Ser Ile Asn Glu Pro Glu Phe Met Gly Val Ala Asp His His Glu Ser

```

```

1           5           10           15
Ser Phe Glu Pro Pro Ser Pro Val Lys Glu Pro Asp Ile His Val Ile
                20                25                30
Leu Asp Gly Lys Glu Arg Ala Asn Val Thr Val Thr Ser Gly Leu Glu
                35                40                45
Val Glu Leu Leu Glu Ile Pro Val Ala Val Ile Ser Met Ile Val Glu
                50                55                60
Pro Leu Ile Val Ala His
65                70

```

<210> 10626

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10626

```

Pro Thr Val Ile Val Lys Arg Asp Ile Asp Lys Ala Leu Ser His Phe
1           5           10           15
Phe Ser Asn Ile Arg Ile Ala Tyr Arg Tyr Lys Lys Ile Gly Glu Pro
                20                25                30
Arg Leu Leu Ser Cys Val Tyr Ala Arg Ile Ile His Ser His Asn Cys
                35                40                45
Val Ala Ser Thr Ile Gly Ser Asp Asp Ile Ser Gly Lys Thr Ile Ser
                50                55                60
Leu Pro Ala Gly Lys Thr Ala His Ile Ser Thr Thr Pro
65                70                75

```

<210> 10627

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10627

```

His Gln Asp Asp Pro Gly Val Ser Glu Asn Thr Lys Ser Thr Arg Trp
1           5           10           15
Tyr His Tyr Arg Leu Ala Ala Gly Lys Leu Tyr Ile Asn Val Glu Phe
                20                25                30
Ala Pro Lys Ser Pro Cys Gln Ser Val Ile Ile Thr Tyr Arg Ile Asn
                35                40                45
Asn Asp Tyr Thr Val Glu Gln Phe Ala Glu Leu Leu Gln Ala Ala
                50                55                60

```

<210> 10628

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 10628

```

Ser Trp Pro Ala Asp Cys Thr Trp Arg Phe Gly Arg Tyr Val Arg Tyr
1           5           10           15
Ser Gly Val Lys Met Ala Glu Ser Glu Thr Asp Gly Ser Ser Asp Val
                20                25                30
Met Met Gly Leu Gly Glu Ser Phe Ile Phe Cys Ile Ser Thr Val Ala
                35                40                45
Tyr Asn Ser Leu Gln Arg Ser Asp Glu Trp Arg Trp Val Glu Gln Thr
                50                55                60
Arg Phe Gly Lys Asn Asp Ser Leu Gln Cys Thr Gly Arg Pro Lys Pro
65                70                75                80
Thr Ile Thr Leu Ala Gly Lys Thr His Ala Leu Phe Leu Asp Gly Ala
                85                90                95
Gly Val Gly Gln Ile Glu Leu Leu Arg Gln Leu Gly Asn Thr Tyr Glu

```

100 105 110
 Pro Gln Gln Leu Val Met Gly Thr Gly Glu Val Met Gly Tyr Trp Thr
 115 120 125
 Ile Thr Ala Leu Ser Glu Asn Gln Thr Ser Phe Leu Ala Lys Gly Ala
 130 135 140
 Pro Lys Val Gln Glu Phe Ser Leu Ser Leu Lys Tyr Tyr Gly Glu Thr
 145 150 155 160
 Leu Thr Ala Ser
 165

<210> 10629

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 10629

Leu Leu Leu Arg Phe Lys Met Thr Asp Ser Leu Leu Glu Thr Ile Glu
 1 5 10 15
 Ile Pro Leu Ser Arg Pro Tyr Glu Ile Asp Gly Val Ala His Asp Lys
 20 25 30
 Leu Thr Met Phe Glu Pro Lys Leu Arg Asp Lys Ile Leu Tyr Ser Lys
 35 40 45
 Asp Lys Gly Thr Glu Asp Glu Lys Ser Ala Arg Met Ile Ala Arg Leu
 50 55 60
 Leu Asn Val Lys Asp Thr Asp Leu Met Asn Leu Pro Ser Cys Asp Phe
 65 70 75 80
 Ala Arg Leu Glu Asp Ala Phe Asn Glu Met Val Lys Asp Pro Val Asp
 85 90 95
 Arg Asn Met Lys Leu Phe Ser
 100

<210> 10630

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 10630

Gly Tyr Ala Ile Met Gly Val Asn Asp Ser Arg Ile Asn Thr Gly Glu
 1 5 10 15
 Gln Pro Trp Leu Pro Asn Phe Phe Ile Ser Val Gly Asp Thr Asp Ile
 20 25 30
 Thr Glu Lys Val Arg Lys Gly Leu Ile Asn Ile Ser Leu Asp Asp Tyr
 35 40 45
 Gly Gly Ser Asn Lys Gln Thr Asp Gln Ile Lys Val Ala Ile Val Ser
 50 55 60
 Glu Ser Leu Arg Ile Pro Ala Arg Gly Val Lys Val Thr Leu Gly Leu
 65 70 75 80
 Gly Phe Gly Thr Gln Ile Val Asn Lys Gly Val Tyr Val Val Asp Gly
 85 90 95
 Gly Ser Ser Gly Gly Glu Pro Arg Ile Val Glu Phe Thr Ala Lys Ala
 100 105 110
 Ala Pro Met Asn Ser Ala Lys Gly Leu Ser Thr Val Gln Ser Lys Lys
 115 120 125
 Thr Arg Ser Trp Thr Gly Asn Thr Leu Gly Asp Ile Leu Ala Lys Val
 130 135 140
 Ala Asn Asp Asn Gly Leu Thr Ala Arg Val Ser Ala Gln Phe Ala Gly
 145 150 155 160
 Lys Val Ile Glu Gln Leu Asp Gln Val Gly Glu Ser Asp Ala Asn Leu
 165 170 175
 Val Ser Arg Leu Ala Asp Arg Phe Asp Ala Val Ser Lys Val Ala Gly
 180 185 190

Gly Tyr Trp Met Phe Leu Pro Arg Gly Ala Gly Glu Ser Ala Ser Gly
 195 200 205
 Lys Pro Leu Lys Gln Tyr Thr Leu Val Arg Thr Gly Asn Ser Gln Trp
 210 215 220
 Asn Tyr Ser Arg Asn Gly Arg Ser Gly Asp Ser Gly Asp Asn Ser Asp
 225 230 235 240
 Gly Ser Lys Asp Thr Ser Thr Phe Val Ile Lys Tyr His Asp Gln Ser
 245 250 255
 Thr Gly Thr Ile Lys Glu Leu Arg Ser Gly Ser Gly Glu Pro Val Ile
 260 265 270
 Glu Ala Pro Phe Val Glu Pro Ser Leu Ala Ala Ala Gln Glu Leu Leu
 275 280 285
 Pro Gly Ala Ser Ser Ser Ser Lys Lys Lys Glu Ile Thr Met Ser His
 290 295 300
 Ser Met Pro Ala Thr Gln Asp Leu Leu Ser Leu Thr Ala Glu Cys Lys
 305 310 315 320
 Ile Thr Thr Lys Gly Phe Gly Pro Asp Glu Asp Arg Ser Trp Thr Ile
 325 330 335
 Asn Thr Leu Asn Met Thr Leu Gly Glu Ser Gly Phe Ser Val Arg Leu
 340 345 350
 Gln Leu Glu
 355

<210> 10631

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10631

Cys His Ser His Ile Ser Ser Leu Leu Ser Ile Lys Asn Asn Val Tyr
 1 5 10 15
 Ile Gly Phe Phe Tyr Gly Arg Arg Trp Phe Lys Arg Arg Phe Met Val
 20 25 30
 Val Gly Asn Pro His Lys Phe Arg Leu Val Tyr Ala Ser Tyr Ala Lys
 35 40 45
 His Glu Arg Asp Ile Phe Phe Tyr Tyr Lys Arg Ser Leu Ser Val Leu
 50 55 60
 Phe
 65

<210> 10632

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10632

Gly Leu Val Ala Glu Gly His Ser Ser Tyr Leu Ile Ile Arg Asn Ile
 1 5 10 15
 Arg Cys Ile Leu Asn Ala Ser Leu Ser Gly Tyr Tyr Asn Pro Leu Glu
 20 25 30
 Ala Arg Val Lys Thr Arg Lys Gly Ser Gln Lys Lys His Ala Phe Asn
 35 40 45
 Leu Leu Ile Glu Cys Arg Lys Gly Leu Ser Lys Val Phe Lys Gly Gly
 50 55 60
 Glu Thr Val Asn Asn Pro Pro Arg Val Pro Ile Asp Thr Gly Gln Thr
 65 70 75 80
 Leu Pro Val Tyr Lys Lys Gly Asn Ala Cys Leu Asn Val
 85 90

<210> 10633

<211> 69

<212> PRT

<213> Enterobacter cloacae

<400> 10633

```

Arg Asn Ser Asn Lys Gln Thr Ala Phe Gln Arg Tyr Ile Leu Arg Ser
1          5          10          15
Val Lys Ile Asp Asp Leu Phe Thr Gly Val Leu Met Ser Leu Pro Ala
20          25          30
Leu Ile Ala Lys Lys Cys Asp Arg Thr Gln Ile Phe Ser Glu Gln Ile
35          40          45
Ser Gln Ile Ser Cys Leu Thr Val Leu Phe Val Arg Thr Ala His Pro
50          55          60
Asn Arg Leu Pro
65

```

<210> 10634

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 10634

```

Arg Arg Ala Ser Ala Thr Arg Phe Leu Ser Thr Lys Thr Ser Arg Lys
1          5          10          15
Thr Ala Ser Gly Gly Gly Tyr Val Leu Pro Asp Leu Asn Thr Pro Gln
20          25          30
Ala Arg Val Ser Glu Ala Pro Ser Gly Lys Lys Lys Ala Gly Asp Ile
35          40          45
Ala Ser Gly Phe Phe Val Pro Ala Ile Gln Thr Ile Ser Cys Ala Tyr
50          55          60
Trp Asn Ser Ala Phe Ser Ser Ala Cys Phe Ser Ala Phe Pro Ser Tyr
65          70          75          80

```

<210> 10635

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 10635

```

Ser Trp Asn Lys Lys Val Gly Arg Ala Ala Glu Ser Asp Thr Ser Asn
1          5          10          15
Leu Ile Leu Leu Lys Val Asp Val Ser Met Val Asn Asp Trp Gly Glu
20          25          30
Gln Ser Glu Gln Lys Ala Pro Ser Gly Lys Lys Phe Ala Arg Phe Val
35          40          45
Pro Lys Lys Ser Ala Phe Cys His Ile Phe Leu Gln Leu Arg Gln Val
50          55          60
Thr Thr Ser Glu Leu Pro
65          70

```

<210> 10636

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10636

```

Ala Phe Ile Met Gln Lys Phe Pro Phe Lys Gly Ile Asn Leu Cys Leu
1          5          10          15
Asn Glu Gly Ile Asn Gly Thr Leu Ala Thr Pro Arg Arg Arg Lys Asn
20          25          30

```

```
<210> 10637
<211> 68
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10638
<211> 113
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10639
<211> 218
<212> PRT
<213> Enterobacter cloacae
```

<400> 10639																
Arg	Arg	Arg	Cys	Arg	Cys	Leu	Trp	Thr	Ala	Ser	Ala	Asn	Pro	Val	Thr	
1			5						10					15		
Ser	Val	Val	Ala	Val	Gly	Trp	Gln	Met	Met	His	Ala	Pro	Asp	Ser	Ala	
			20					25					30			
Gln	Met	Gln	Leu	Ala	Ala	Ser	Leu	Ala	Pro	Ile	Pro	Glu	Gly	Leu	Ser	
		35					40					45				
Thr	Ala	Gln	Leu	Gln	Ala	Leu	Gln	Gln	Thr	Ser	Pro	Pro	Pro	Glu	Pro	
	50					55					60					

Gly Ile Ser Lys Thr Gln Gln Met Leu Ala Gln Leu Leu His Leu Lys
 65 70 75 80
 Pro Asp Trp Ala Val Ser Tyr Gly Asp Arg Leu Val Gln Gln Ala Leu
 85 90 95
 Thr Leu Trp Pro Glu Glu Ala Lys Ser Leu Ala Gln Gln Trp His Thr
 100 105 110
 Gln Ile Ser Val Ala Gly Leu Ala Glu Ser Asp Leu Asn Gly Trp His
 115 120 125
 Gln Gly Met Thr Gln Leu Gln Gln Leu Thr Asn Arg Leu Asn Ala Leu
 130 135 140
 Asp Glu Gln Lys Gly Lys Tyr Met Thr Val Ser Glu Leu Lys Ser Ala
 145 150 155 160
 Val Phe Ala Met Ser Gln Ser Phe Ser His Thr Val Pro Leu Glu Glu
 165 170 175
 Gln Leu Arg Leu Leu Ser Ile Leu Pro Ala Gly Gln Pro Leu Ser Ala
 180 185 190
 Ala Gln Leu Lys Gln Thr Glu Gln His Leu Gln Gln Leu Ile Ala Ser
 195 200 205
 Tyr Ala Leu Leu Lys His Gln Lys Glu
 210 215

<210> 10640

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 10640

Met Gln Arg Gln Ala Met Gly Val Ala Leu His Ile Val Leu Leu Pro
 1 5 10 15
 Phe Phe Glu Leu Leu His Ser Thr Ile Asp Ser Tyr Asp Ala Asp Phe
 20 25 30
 Ile Val Gly Phe Phe Leu Pro Pro Asp Tyr Leu Arg Leu Pro Phe Arg
 35 40 45
 Gly Gln His Pro Asn Leu Glu Lys Met Ser Ile Leu Leu Ala Leu
 50 55 60
 Gln Arg Leu Asn Thr Trp Gln Ser Asp Pro Val Pro Thr Asp Pro Thr
 65 70 75 80
 Pro Ile Pro Asp Pro Val Pro Arg Pro Gln Pro Met Pro Asp Pro Pro
 85 90 95
 Pro Asp Glu Glu Pro Ile Lys Leu Ser His Arg
 100 105

<210> 10641

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 10641

Ser Thr Lys Lys Asn Asn Glu Thr Gly Glu Lys His Gly Val Asp Met
 1 5 10 15
 Ser Ala Arg Glu Arg Phe Phe Lys Lys Val Gln Gln Ser Ile Gly Asp
 20 25 30
 Lys Pro Ile Tyr Val Asn Thr Ala Glu Ala Glu Val Arg Ala Phe Cys
 35 40 45
 Glu Arg Met Glu Asp Leu Ala Gln Gln Ile Ile Thr Trp Phe Glu Gly
 50 55 60
 Ser Gly Ile Glu Ile Phe Leu Ser Lys Lys His Ile Thr Asp Leu Ser
 65 70 75 80
 Thr Val Gly Tyr Ser Leu Ser Ser Gly Ile Cys Arg Tyr Ala Ile Thr
 85 90 95
 Thr Ile Ile Leu Gln Asn Gly Asp Arg Ser Val Thr Ile Met Pro Glu

```

          100          105          110
Gln Val Ile Arg Gly Ser Glu Lys Gly Cys Val Thr Met Ser Ile Asn
          115          120          125
Val Pro Asp Ser Leu Ser Gly Ala Arg Ile Phe His Leu Ser Met Ala
          130          135          140
Pro Glu Thr Gly Trp Tyr Ile Arg Arg Gly His Gln Ser Ala Lys Glu
145          150          155          160
Asn Ile Leu Met Thr Glu Asp Cys Phe Phe Gln Ala Ile Asp Cys Leu
          165          170          175
Ala

```

<210> 10642

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 10642

```

Ser Lys Tyr Pro Phe Lys Ser Trp Lys Ile Phe Asp Leu Asn Cys Val
1          5          10          15
Lys Met Ser Lys Leu Thr Phe Arg Arg Val Asn Lys Arg Arg Lys Ile
          20          25          30
Asp Glu Tyr Arg Ser Glu Val Phe Ala Val Tyr His His Cys Cys Ser
          35          40          45
Cys Ser Asp Cys Cys Arg Trp Phe Asn Arg Cys Thr Ala Leu Ile Gln
          50          55          60
Ala Glu Gly Glu Pro Ser Ser Leu Ala Ala Ile Val Thr Ser Pro
65          70          75          80
Ala Lys Ile Phe Cys Gln Asn Val Asn Phe Ser Phe Phe Val Ile Asp
          85          90          95
Val Met Leu Leu Thr Ser
          100

```

<210> 10643

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10643

```

His His Ala Lys Asp Pro Ser Leu Gln Glu Ile Lys Met Lys Ala Ile
1          5          10          15
Ser Phe Val Glu Ala Lys Asp Ile Ile Gly Gly Ala Leu Asn Pro Phe
          20          25          30
Ala Gly Leu Val Lys Gly Ala Gln Leu Gly Tyr Asp Thr Gly Ala Ser
          35          40          45
Ile Met Gly Met Val Gly Gly Val Val Gly Gly Val Leu Gly Gly Ala
          50          55          60
Met Gly Phe Leu Gly Ala Leu Val Gly Ser Tyr Asn
65          70          75

```

<210> 10644

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 10644

```

Asn Met Ser Arg Thr Lys Met Ser Val Leu Phe Ser Ile Val Leu Ala
1          5          10          15
Leu Ser Val Ile Ala Leu Leu Trp Ile Tyr Phe Thr Arg Thr Gln Asp
          20          25          30
Glu Gly Phe Gly Cys Gln Ser Asp Thr Ile Ser Trp Lys Thr Tyr Ser

```



```

      35              40              45
Thr Gly Glu Ser Thr Asp Met Ser Leu Thr Thr Leu Phe Leu Phe Asn
  50              55              60
Asn Lys Asp Val Val Thr Val Ile His Lys Gly Val Leu Lys Lys Glu
  65              70              75
Gly Lys Ser Tyr Leu Ile Asp Arg Asn Tyr Thr Leu Ile Val Glu Glu
      85              90              95
Val Asp Gly Ser Asn Ile Phe Tyr Ile Lys Asp Lys Lys Leu Asn Lys
      100              105              110
Ser Glu Asp Asp Ala Ala Pro Asp Gly Val Val Asn Glu Met Leu Leu
      115              120              125
Asp Asn Ile Asn Phe Phe Tyr Ile Thr Ser Val Lys Lys His Ala Trp
      130              135              140
Leu Ile Lys Gly Leu Val Leu Pro Val Met Met Cys Val Ala Val Pro
      145              150              155              160
Thr Ser

```

<210> 10645

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10645

```

Leu Gln Leu Ile His Val Asn Arg Lys Ser Ile Met Gln Val Ile Asp
  1              5              10
Phe Lys Lys Ala Gln Ala Ile Ile Gly Gly Trp Asp Pro Phe Ala Ala
      20              25              30
Ala Ile Gln Gly Ala Ser Ala Gly Tyr Asn Ala Gly Ser Gln Met Leu
      35              40              45
Gly Ala Leu Gly Gly Thr Ile Gly Gly Val Phe Gly Leu Val Gly Gly
      50              55              60
Phe Ile Gly Gly Phe Phe Ser Ala
  65              70

```

<210> 10646

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 10646

```

Ile Leu Pro Arg Asn Ser Ser Ala Arg Asp Leu Ser Ile Ser Ile Thr
  1              5              10
Leu Thr Arg Gln Lys Val Pro Met Val Phe Pro Ser Ser Thr Val Ala
      20              25              30
Ala Gly Ala Ser Ile Phe Ala Gly Cys Val Glu Glu Ser His Ala Val
      35              40              45
Arg Ser Lys Lys Val Ala Arg Thr Leu Ala Arg Lys Lys Val Ile Ser
      50              55              60
Ile Gly Tyr Tyr Pro His Ala Arg Ala Ala Arg Val His
  65              70              75

```

<210> 10647

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 10647

```

Arg Ser His Gly Val Ala Ile Tyr Ser His Glu Lys Tyr Leu Ser Thr
  1              5              10
Asp Pro Gly Ala Glu Ser Ser Ile Leu Ser Ala Ala Gln Arg Ile Ile

```

```
<210> 10648
<211> 83
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10649
<211> 114
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10650
<211> 159
<212> PRT
<213> Enterobacter cloacae
```

<400> 10650
 Asn Asn Phe Asn Asn Gly Ala Ala Leu Thr Arg Pro Phe Asp Tyr Gln
 1 5 10 15
 Gln Asp Phe Ala Asn Ile Asn Phe Arg Glu His Pro Glu Arg Tyr Gln

```
<210> 10651
<211> 154
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10652
<211> 81
<212> PRT
<213> Enterobacter cloacae
```

<400> 10652															
Glu	Phe	Phe	Ser	Pro	Lys	Thr	Gln	Phe	Ser	Pro	Leu	Gly	Gly	Gly	Leu
1			5						10					15	
Lys	Leu	Gly	Pro	Lys	Gly	Tyr	Gly	Cys	Ser	Pro	Phe	Lys	Val	Val	Arg
			20					25					30		
Glu	Leu	Gly	Leu	Glu	Arg	Arg	Glu	Thr	Val	Arg	Ser	Ile	Ser	Ala	Val
		35					40					45			
Gly	Ala	Gly	Glu	Leu	Arg	Gly	Val	Ala	Pro	Ser	Thr	Arg	Gly	Pro	Glu
	50					55					60				
Trp	Thr	His	His	Trp	Cys	Ser	Gly	Cys	His	Ala	Asn	Gly	Thr	Ala	Arg
65				70					75					80	

<210> 10653
 <211> 66
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (45)

<400> 10653
 Gly Ile Lys Ala Met Pro Leu Ser Ala Gln Gln Leu Ala Ala Gln Lys
 1 5 10 15
 Asn Leu Ser Tyr Val Leu Ala Glu Lys Leu Ala Gln Leu Ile Leu Ala
 20 25 30
 Gly Lys Tyr Ala Pro Gly Ser Ile Leu Ala Pro Lys Xaa Gly Lys Arg
 35 40 45
 Trp Ser Trp Glu Ile Ser Leu Ala Leu Ala Val Gln Pro Phe Ala Lys
 50 55 60
 Arg
 65

<210> 10654
 <211> 114
 <212> PRT
 <213> Enterobacter cloacae

<400> 10654
 Lys Asn Ser Asn Asn Val Ile Ala Asn Gly Gly Ile Met Asn Val His
 1 5 10 15
 Leu Lys Tyr Asp Thr Ile Lys His Tyr His Phe Asp Trp Leu Thr Pro
 20 25 30
 Ala Gly Asp Tyr Pro Asn Ser Ala Val Met Leu Val Gly Phe Arg Asp
 35 40 45
 Gly Arg Trp Ile Ile Val Gln Glu Phe Gly Asn Asp Tyr Ser Cys Phe
 50 55 60
 Glu Gly Val Leu Lys Asn Gly Asp Asp Leu Asn Thr Glu Pro Lys Phe
 65 70 75 80
 Tyr Ser Asp Leu Glu Ser Val Ala Val Ala Ala Phe Gly Met Met Lys
 85 90 95
 Gln Ile Tyr Pro Gln Tyr Gln Asp Ser Thr Leu Glu Glu Phe Leu Ala
 100 105 110
 Gly

<210> 10655
 <211> 136
 <212> PRT
 <213> Enterobacter cloacae

<400> 10655
 Glu Asp Asn Thr Arg Ser Asp Asn Lys Val Val Ser Met Ile Val Gly
 1 5 10 15
 Ser Asn Gly Ser Thr Phe Glu Lys Gly Arg Gln His Tyr Lys Ile His
 20 25 30
 Gln Gln Cys Thr Gln Ile Asn Tyr Trp Tyr Leu Lys Met Lys Val Lys
 35 40 45
 Glu Leu Ile Ala Met Leu Asn Glu Arg Asp Pro Glu Ala Ile Val Leu
 50 55 60

```
<210> 10656
<211> 119
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

```
<210> 10657
<211> 487
<212> PRT
<213> Enterobacter cloacae
```

Asn	Met	Lys	Val	Thr	Ile	Asp	Gly	Val	Ser	Tyr	Ala	Pro	Val	Cys	Asn
1				5					10					15	
Ala	Gly	Ala	Arg	Ile	Gly	Ile	Ala	Ile	Thr	Thr	His	Asn	Arg	Ala	Asp
			20					25					30		
Ala	Leu	Lys	Arg	Ala	Leu	Ala	Gln	His	Gln	Gln	Phe	Leu	Pro	Gln	Gly
		35					40					45			
Ala	Leu	Val	Val	Val	Ile	Asp	Asp	Gly	Ser	Lys	Pro	Pro	Ala	Glu	Val
	50					55					60				
Phe	Glu	Asp	Val	Gln	Leu	Leu	Arg	His	Glu	Thr	Ser	Leu	Gly	Ile	Val
65					70					75					80
Ala	Ser	Lys	Asn	Ala	Ser	Leu	Thr	Ala	Leu	Met	Asp	Ala	Gly	Cys	Glu
			85						90					95	
His	Leu	Phe	Leu	Trp	Asp	Asp	Asp	Ala	Trp	Pro	Ile	Ala	Asp	Asn	Trp
			100					105					110		
His	Leu	Pro	Tyr	Ile	Glu	Ser	Pro	Glu	Pro	His	Leu	Ala	Tyr	Gln	Phe
			115					120				125			
Leu	Asp	Leu	Ala	Gly	Thr	Asn	Lys	Leu	Lys	Asp	Met	Ala	Ile	Leu	Tyr
	130					135					140				
Arg	Asp	Asp	Lys	His	Ile	Ala	Tyr	Thr	Gly	Gln	Arg	Gly	Val	Met	Leu
145					150					155					160
Tyr	Tyr	His	Arg	Ser	Ala	Ile	Glu	Lys	Val	Gly	Gly	Phe	Asp	Pro	Val

Tyr Arg Arg Arg Met Tyr Glu His Ser Asp Leu Ala Leu Arg Ile His
 165 170 175
 180 185 190
 Asn Ala Gly Leu Thr Thr Trp Ala Tyr Gly Asp Val Val Gly Ser Glu
 195 200 205
 Lys Leu Ile His Ser Leu Asp Glu His Glu Ala Val Glu Arg Ser Val
 210 215 220
 Pro Arg Pro Asp Arg Gln Ala Leu Val Glu Arg Asn Val Lys Ile His
 225 230 235 240
 Asn Glu Arg Arg Asp Ala Gly Phe Thr Gly Tyr Ala Glu Tyr Arg Gln
 245 250 255
 Gln Arg Asp Val Val Ile Thr Thr Leu Leu Thr Ser Gln Pro Asp Pro
 260 265 270
 Gln Arg Gly Thr Lys Met Ala Ala Ser Pro Asp Met Leu Ser Lys Trp
 275 280 285
 Ala Ala Ser Leu Arg Gln Cys Gly Arg Ile Ala Leu Val Asp Glu Leu
 290 295 300
 Leu Thr Ala Pro Ala Asp Val Glu Leu Tyr Leu Val Pro Asp Val Lys
 305 310 315 320
 Met Asn Val Tyr Phe Arg Arg Trp Leu His Ile Trp Gln His Leu Arg
 325 330 335
 Asp His Pro Glu Tyr Arg Phe Val Trp Cys Thr Asp Gly Thr Asp Val
 340 345 350
 Glu Met Leu Arg Ala Pro Trp Glu Glu Met Gln Pro Gly Thr Val Tyr
 355 360 365
 Val Gly Ser Glu Pro Lys Thr Tyr Ala Asp Thr Trp Ala Lys Gln Asn
 370 375 380
 His Pro Glu Arg Ile Tyr Gln Glu Phe Ile Glu Ser His Arg Gly Asp
 385 390 395 400
 Val Met Leu Asn Ala Gly Leu Leu Gly Gly Thr Arg Ala Asp Val Met
 405 410 415
 Ala Phe Ala His Gly Ile Ile Arg Leu Tyr Tyr Arg Ile Glu Ser Tyr
 420 425 430
 Arg Phe Trp Lys Glu Gln Ala Gly Ala Ala Val Gly Asp Met Leu
 435 440 445
 Ala Phe Gly Ile Val Ala His Ser Phe Ala Gly Lys Val Ile Thr Gly
 450 455 460
 Pro Gln Val His Thr Val Phe Lys Thr Asp Gly Ile Gly Lys Asp Asn
 465 470 475 480
 Ala Trp Trp Lys His Lys
 485

<210> 10658

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 10658

Ala Ser Ile Gln Leu Asn Gln Phe Ser Tyr Gln Tyr Asp Asn Glu Phe
 1 5 10 15
 Leu Phe Leu Thr Ser Leu Asp Thr Pro Tyr Arg Leu Lys Ser Val Asp
 20 25 30
 Ser Gly Arg Cys Ala Leu Thr Asn Pro Phe Ser Ile Ser Leu Asn Val
 35 40 45
 Trp Ser Arg Val Met Gly Ile Leu Thr Phe Asp Ile Thr Cys Pro His
 50 55 60
 Cys Leu Arg Glu Asn Ala Val Leu Glu Gly Trp Ala Glu Leu Arg Ile
 65 70 75 80
 Asn Ala Gly Pro Leu Val Asn Val Ala Phe Ser Cys Arg Ser Cys Phe
 85 90 95
 Gln Ala Gly Ile Ala Met Val Lys Met Asn Asn Pro Val Gly Phe Ser

```

      100              105              110
Pro Leu Ser Lys Ser Lys Gln Asn Lys Asp Val Asn Val Ile Ile Pro
      115              120              125
Gly Asn Leu Glu Tyr Gln Leu Ile Asp Val Phe Pro Lys Pro Ile Thr
      130              135              140
Leu Ser Ala Pro Asp His Thr Pro Ser Arg Ala Ala Met Ala Phe Val
145              150              155
Glu Ala Lys Asp Asn Leu Gly Arg Gly Arg Phe Asp Thr Ser Val Met
      165              170              175
Leu Cys Arg Lys Val Leu Asp Ile Ala Thr Arg Glu Leu Leu Gly Asn
      180              185              190
Asp Ser Lys Asp Glu Lys Leu Val Lys Arg Ile Ser Met Leu His Gly
      195              200              205
Lys Gly Leu Ile Thr Asp Gln Met Lys Glu Trp Ala His Ile Val Arg
      210              215              220
Ile Asp Ser Asn Gly Ala Val His Ser Asp Glu Glu Phe Ser Lys Glu
225              230              235
Asp Ala Gln Glu Met Ile Gly Phe Thr Glu Val Phe Leu Leu Tyr Ala
      245              250              255
Phe Thr Leu Pro Asp Met Val Asp Asn Lys Lys Gln Asn Gln
      260              265              270

```

<210> 10659

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10659

```

Lys Ser Arg Thr Met Ala Ala Thr Val Cys Ile Ser Gly Cys Asn Phe
1              5              10              15
Ala Leu Thr Arg Val Asn Val Ser Ile Gln Pro Val Ser Gly Gly Thr
      20              25              30
Leu Thr His Ser Gly Thr Glu Glu Trp Leu Ile Thr Ser Asp Lys Glu
      35              40              45
Met Lys Cys Leu Phe Cys Thr Lys Glu Cys Ile Leu Ile Lys Val Ile
      50              55              60
Pro Leu Leu
65

```

<210> 10660

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10660

```

Thr Met Arg Phe Tyr Ala Tyr Tyr Trp Phe Leu Asp Lys Thr Met Thr
1              5              10              15
Asn Leu Pro Glu Arg Gln Lys Thr Pro Glu Ile Arg Leu Ile Trp Thr
      20              25              30
Gly Ala Leu Thr Leu Ala Pro Met Glu Ile Phe Ala Arg Ala Asn Leu
      35              40              45
Cys Val Tyr Lys Leu Val Leu Leu Tyr Asn Pro Phe Thr Leu Ser
      50              55              60

```

<210> 10661

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10661

```

Gly Arg His Cys Pro Arg Ile Lys Pro Thr His Gln Arg Arg Arg Phe

```

1 5 10 15
 Arg Val Leu Glu Thr Gly Phe Glu Glu Ser Phe Gly Glu Ile Arg Leu
 20 25 30
 Arg His Cys Val Ala Ser Met Asp Thr Ser Tyr Glu Asp His Cys Asn
 35 40 45
 Ala Trp Gln Gly Lys Lys Asn Asn Ala Arg His Asn Arg Ala Cys Lys
 50 55 60
 Val Thr Tyr
 65

<210> 10662

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 10662

Ser Arg Ser Ser Ala Trp Ala Asp Ala Ala His Ser Asn Thr Pro Ala
 1 5 10 15
 Leu Ser Ala Leu Ala Gln Ser Arg Gly Leu Thr Asp Asn Arg Ser Gly
 20 25 30
 Phe Met Thr His Val Ile Glu Lys Ile Ala Phe Pro Leu Met Gly Ser
 35 40 45
 Asp Tyr Ser Thr Met Asn Ser Gly Leu Pro Val Ile Ser Ser Gly Ile
 50 55 60
 Ser Ile Pro Ile Ser Asp Asn Met Val Gly Ala Met Ser Glu Ser Leu
 65 70 75 80
 Pro Pro Ser Thr Ala Phe Thr Asp Leu Ser Pro Thr
 85 90

<210> 10663

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 10663

Lys Asn Gln Asp Arg Ser Ile Pro Val Arg Cys Gly Lys Tyr Ser Gln
 1 5 10 15
 Arg His Lys Ala Asn Leu Phe Ser Ala Ala Cys His Val Lys Lys Ala
 20 25 30
 Ser Lys Trp Pro Glu Asn Ser Leu Ala Pro Ala Leu Ser Leu Ile Phe
 35 40 45
 Cys Gly Tyr Phe Ile Asp Ser Ala Val Val Lys Leu Arg Lys Ile Phe
 50 55 60
 Val Ser
 65

<210> 10664

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 10664

Val Ile Phe Tyr Thr Leu Ser Arg Tyr Gly Gly Glu Met Glu Thr Leu
 1 5 10 15
 Thr Val Gln Ala Tyr Leu Asn Glu Thr Trp Thr Asp Ile Ala Leu Ile
 20 25 30
 Lys Tyr Pro Gly Ser Glu Lys Asn Asp Trp Asn Thr Thr Gln Leu Asp
 35 40 45
 Tyr Leu Thr Glu Tyr Ala Ile Asn Phe Leu Asp Tyr Asp Asp Phe His
 50 55 60
 Ala Val Ser Val Asn His Pro Val Ser Leu Phe Phe Asp Asp His Gly


```
<210> 10665
<211> 61
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10666
<211> 69
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10667
<211> 62
<212> PRT
<213> Enterobacter cloacae
```

```
<400> 10667
Ala Lys Arg His Pro Ala Lys Lys Pro Gly Pro His Arg Glu Gly Phe
1      5      10
Phe Ile Ser Ala Leu Leu Lys Ile Ala Ala Ile Ala Asp Lys Ile Ile
```

```
<210> 10668
<211> 74
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10669
<211> 179
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10670
<211> 131
<212> PRT
<213> Enterobacter cloacae
```

Asp Glu Ala Ser Met Thr Ser Thr Leu Asp Pro Ser His Lys Gln Ile

1				5					10					15			
Glu	Met	Trp	Arg	Arg	Ala	Thr	Gly	Ser	Glu	Gly	Gly	Leu	Asn	Glu	Tyr		
			20					25					30				
Arg	Asn	Trp	Val	Leu	Glu	Asn	Ser	Met	Arg	Phe	Thr	Ala	Tyr	Gly	Ile		
		35					40					45					
His	Thr	Val	Ile	Val	Glu	Gly	Glu	Ala	Lys	His	Ile	Thr	Ala	Leu	Asp		
	50					55					60						
Asp	Val	Thr	Leu	Cys	Asn	Glu	Trp	Ala	Lys	Leu	Lys	Arg	Glu	Asn	Asn		
65					70					75				80			
Arg	Leu	Tyr	Ala	Ala	Asn	Glu	Lys	Ile	Cys	Ser	Gly	Trp	Arg	Gly	Phe		
			85						90					95			
Val	Leu	Arg	Leu	Leu	Gly	Ile	Thr	Leu	Pro	Cys	Arg	Lys	Pro	Val	Ile		
			100					105					110				
Leu	Leu	Gly	Val	Asp	Gly	Lys	Asn	Gln	Asn	Asp	Ala	Val	Lys	Gly	Ala		
		115					120					125					
Asp	Leu																
	130																

<210> 10671
 <211> 122
 <212> PRT
 <213> Enterobacter cloacae

Phe	Ser	Gly	Glu	Pro	Thr	Val	Leu	Arg	Lys	Leu	Phe	Tyr	Gly	Tyr	Val		
1				5					10					15			
Arg	Lys	Ile	Met	Phe	Ser	Glu	Arg	Ser	Val	His	Leu	Ile	Thr	Ser	Cys		
			20					25					30				
Thr	Lys	Gly	Lys	Asn	His	Gln	Gly	His	Val	Trp	Pro	Thr	Leu	Asp	Ile		
		35					40					45					
Asp	Pro	Lys	Gln	Thr	Pro	Asp	Ala	Ala	Tyr	Ala	Trp	Ser	Asn	Ile			
	50					55				60							
Val	Asp	Asp	Ala	Arg	Ser	Asn	Gln	Ala	Val	Pro	Ala	Leu	Ser	Leu	Tyr		
65				70					75					80			
Ser	Gly	Asn	His	Trp	Ser	Thr	Ala	Lys	Glu	Ile	Leu	Asn	Ser	Thr	Arg		
			85					90					95				
Asn	Leu	Glu	Leu	Trp	Ile	Ile	Ser	Ala	Gly	Met	Gly	Phe	Leu	Asn	Ser		
		100					105						110				
Arg	Asp	Arg	Ala	Leu	Leu	Met	Arg	Phe									
		115					120										

<210> 10672
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

Val	Cys	His	Ala	Thr	Asn	Asn	Gly	Tyr	Leu	Thr	Phe	Ile	Tyr	Ser	Pro		
1				5					10					15			
Thr	Met	Leu	Ile	Val	Arg	His	Ala	Ile	Arg	Ser	Phe	Ser	Leu	Ser	Arg		
			20					25					30				
Ala	Thr	Phe	Asn	Leu	Met	Glu	Glu	Cys	Met	Tyr	Gly	Leu	Ser	Leu	Ile		
		35					40					45					
Arg	Leu	Gly	Leu	Phe	Ile	Ala	Leu	Ala	Ile	Ile	Ala	Ser	Thr	Ala	Ile		
	50					55					60						
Gly	Leu	Phe	Thr	Tyr	Val	Val	Val	Ser	Ala	Leu	Ala	Glu					
65					70					75							

<210> 10673
 <211> 324
 <212> PRT

<213> Enterobacter cloacae

<400> 10673

```

Thr Thr Met Asn Ala Thr Gly Leu Asn Ile Ile Lys Thr Leu Gly Cys
1      5      10      15
Met Thr Ala Val Thr Phe Phe Thr Ile Tyr Asn Thr Trp Asp His Tyr
      20      25      30
Asp Tyr Asp Tyr His Trp Ile Leu Gly Phe Leu Thr Phe Ile Ser Thr
      35      40      45
Ile Ala Thr Pro Leu Phe Phe Val Val Ala Gly Tyr Leu Asp Gly Gln
      50      55      60
Ser Arg His Gly Thr Arg Trp Gln Leu Asp Lys Ile Lys Arg Leu Val
      65      70      75      80
Ile Val Phe Leu Phe Trp Val Thr Ile Tyr Tyr Leu Trp Glu Pro Tyr
      85      90      95
Gln Arg Gly Tyr Leu Ile Gln Pro Trp Phe Val Phe Ala Phe Ile Val
      100      105      110
Ile Tyr Thr Phe His Pro Val Val Glu Arg Leu Gly Gln Arg Arg Met
      115      120      125
Leu Phe Cys Gly Val Ile Thr Ala Leu Leu Leu Phe Ser Tyr Gly Tyr
      130      135      140
Asp Leu Leu Ser Ala Leu Tyr Pro Asp Ala His Val Leu Ser Leu Ser
      145      150      155      160
Pro Gln Tyr Arg Leu Trp Thr Trp Leu Leu Phe Tyr Leu Thr Gly Gln
      165      170      175
Leu Phe Cys Asp Pro Gln Ile Ala Ala Trp Ile Gly Arg Lys Asn Val
      180      185      190
Val Arg Ala Ala Val Ile Ala Ile Pro Phe Ile Tyr Leu Phe Thr Trp
      195      200      205
Phe Tyr Glu Arg His Phe Phe Phe Ala Leu Phe Lys Ala Asp Arg Asn
      210      215      220
Ala Phe Ile Leu Thr Gly Ser Gln Ile Tyr Ile Leu Ile Ile Ala Leu
      225      230      235      240
Val Ile Ala Ala Asn Gly Val Arg Phe Arg Arg Asn Ala Glu Phe Lys
      245      250      255
Glu Ser Val Leu Ala Ala Ile Ser Lys Thr Met Thr Gly Val Tyr Ile
      260      265      270
Met His Tyr Ser Val Phe His Leu Leu Thr Ala Leu Ile Pro Val Thr
      275      280      285
Ser Leu Ser Thr Lys Leu Ala Leu Ile Val Leu Thr Phe Val Thr Ser
      290      295      300
Val Leu Phe Ser Leu Leu Ile Leu Ser Asn Thr Val Ala Lys Lys Val
      305      310      315      320
Ile Thr Leu

```

<210> 10674

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10674

```

Asp Thr Leu Gln Arg Gln Tyr Pro Cys Leu Gly Ile Val Ser Thr Val
1      5      10      15
Asn Tyr Ala Arg Leu Arg Phe Lys Thr Asp Gly Tyr Gly Phe Cys Thr
      20      25      30
Phe Arg Leu Met Thr Glu Arg Ile Lys Gly Ile Ser Trp Leu Asn Gly
      35      40      45
Ala Ala Asn Ile Ser Ala His Thr Leu Ser Thr Val Arg Arg Val Ser
      50      55      60
Lys Ser Arg Lys Ser Arg Cys Pro Phe Leu

```

65

70

75

<210> 10675

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 10675

```

Ser Met Ala Ala Thr Gly Trp Ile Ser Ala Ala Ser Cys Leu Thr
1      5      10      15
Trp Arg Asn Gln Phe Trp Tyr Glu Val Asn Val Gly Ile Glu Thr Ile
      20      25      30
Ile Gly Leu Ala Ala Leu Val Ile Ser Ala Ile Ala Gly Ala Phe Gly
      35      40      45
Leu Gly His Ile Arg Gly Thr Ser Lys Ala Glu Ala Lys Ala Asp Gln
      50      55      60
Gln Arg Thr Glu Asp Asn Ala Ala Ala Met Val Ala Ala Ala Glu Arg
65      70      75      80
Arg Val Glu Thr Thr Lys Glu Ala Ser Asn Val Gln Gln Thr Val Asn
      85      90      95
His Met Pro Gly Asp Asp Val Asp Arg Glu Leu Arg Asp Glu Trp Lys
      100      105      110
Arg Pro Gly Gly Gly
      115

```

<210> 10676

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 10676

```

Trp Thr Arg Gly Arg Lys Met Gly Ile Ser Pro Thr Leu Asn Ile Pro
1      5      10      15
Gln Ala Arg Phe Leu Ala Met Gln His Lys Phe Lys Ala Tyr Val Ala
      20      25      30
Gly Phe Gly Ser Gly Lys Thr Trp Val Gly Cys Gly Gly Ile Cys Lys
      35      40      45
Gly Met Trp Glu His Pro Lys Ile Asn Gln Gly Tyr Phe Ala Pro Thr
      50      55      60
Tyr Pro Gln Ile Arg Asp Ile Phe Tyr Pro Thr Ile Glu Glu Val Ala
65      70      75      80
Phe Asp Trp Gly Leu Asn Val Lys Ile Asn Glu Gly Asn Lys Glu Val
      85      90      95
His Phe Tyr Glu Gly Arg Arg Tyr Arg Gly Thr Thr Ile Cys Arg Ser
      100      105      110
Met Glu Lys Pro Gly Ser Ile Val Gly Phe Lys Ile Gly Asn Ala Met
      115      120      125
Val Asp Glu Leu Asp Val Met Ala Ala Ala Lys Ala Gln Gln Ala Trp
      130      135      140
Arg Lys Ile Ile Ala Arg Met Arg Tyr Lys Ile Asp Gly Leu Arg Asn
145      150      155      160
Gly Ile Pro Leu Thr Gly Pro Gly
      165

```

<210> 10677

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 10677

```

Thr Met Lys Glu Cys Lys Lys Asp Arg Leu Pro Glu Tyr Lys Ser Leu

```

```
<210> 10678
<211> 132
<212> PRT
<213> Enterobacter cloacae
```

Gly 1	Gly	Ala	Met 5	Ser	Asp	Pro	Phe	Ser	Gly 10	Thr	Gly	Leu	Ala 15	Gly	Leu
Ala	Leu	Thr	Gly 20	Ala	Ser	Val	Tyr	Gly 25	Leu	Leu	Thr	Gly	Thr 30	Asp	Tyr
Gly	Val	Val	Phe 35	Gly	Ala	Phe	Ala 40	Gly	Ala	Val	Phe	Tyr	Ile 45	Ala	Thr
Ala	Thr	Asp	Leu 50	Ser	Met	Leu 55	Arg	Arg	Leu	Ala	Tyr 60	Phe	Val	Val	Ser
Tyr 65	Ile	Val	Gly	Ile	Leu 70	Gly	Tyr	Gly	Leu	Val 75	Gly	Ser	Lys	Leu	Ala 80
Ser	Trp	Thr	Glu 85	Tyr	Ser	Asp	Lys	Pro	Leu 90	Asp	Ala	Ile	Gly	Ala 95	Val
Ile	Val	Ser	Ala 100	Leu	Ala	Val	Gln	Ile 105	Leu	Thr	Phe	Leu	Asn 110	Lys	Gln
Asp	Ile	Gly	Ser	Leu	Val	Ala	Leu	Ile	Thr	Arg	Arg	Gly	Gly	Ser	Gly

115 120 125
 Gly Thr Lys
 130

<210> 10679
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

<400> 10679
 Lys Gln Arg Lys Arg Pro Ala Met Tyr Ser Arg Leu Leu Ile Ile Cys
 1 5 10 15
 Leu Ala Thr Met Leu Ile Ala Ser Cys Val Thr Asn Gly Ser Val Pro
 20 25 30
 Ala Val Val Asp Thr Gly Cys Asp Trp Val Lys Pro Ile Phe Leu Thr
 35 40 45
 Asp Gln Asp Ile Asp Val Leu Asp Arg Gln Thr Lys Lys Asp Ile Leu
 50 55 60
 Ala His Asn Lys Ala Trp Lys Ala Asn Cys Gly Lys Asn
 65 70 75

<210> 10680
 <211> 152
 <212> PRT
 <213> Enterobacter cloacae

<400> 10680
 Gln Pro Met Lys Ile His Phe Ile Thr Ile Ala Leu Leu Ala Thr Ile
 1 5 10 15
 Ser Ser Pro Ser Tyr Ala Ala Phe Gln Glu Arg Glu Tyr Asn Thr Trp
 20 25 30
 Tyr Gln Lys Asp Ala Val Leu Tyr Asp Ile Thr Gln Thr Ser Glu Gly
 35 40 45
 Leu Pro Val Met Ile Ser Ile Ser Gln Pro Gly Arg Glu Ser Ala Asn
 50 55 60
 Met Leu Val Ser Tyr Met Ser Asp Gly Gly Cys Gly Asp Glu Lys Val
 65 70 75 80
 Arg Leu Asn Ala Asn Gly Lys Asp Val Pro Ala Thr Tyr Thr Cys Val
 85 90 95
 Ser Val Gly Ala Asp Arg Ile Glu His Phe Ala Val Asn Asp Ala Ser
 100 105 110
 Lys Val Asn Glu Met Val Asn His Leu Lys Ser Asp Phe Thr Leu Leu
 115 120 125
 Leu Gln Asn Asp Ile Lys Val Trp Ala Ala Asn Ile Lys Thr Pro Lys
 130 135 140
 Tyr Gly Leu Ala Pro Lys Phe
 145 150

<210> 10681
 <211> 469
 <212> PRT
 <213> Enterobacter cloacae

<400> 10681
 Leu Asp Leu Gly Glu Arg Gln His Ile His Gln His His Leu Pro Ile
 1 5 10 15
 Thr His Ser Val Ser Lys Gln Thr Pro Leu Arg Arg Gly Phe Leu Leu
 20 25 30
 Pro Gly Glu Asn Met Leu Tyr Asn Thr Gly Thr Ile Ala Ile Asn Gly
 35 40 45
 Asn Thr Ala Thr Gly Thr Gly Thr Asn Trp Thr Ala Pro Ala Ser Gln

50		55		60	
Ile Arg Val Gly Gln Thr	Leu Phe Val Leu Ser Asn Pro Val Gln Met				
65	70	75	80		
Phe Gln Ile Thr Ala Ile	Asn Ser Ala Thr Ser Leu Thr Val Thr Pro				
	85	90	95		
Ala Ala Ser Gln Ala Leu Ser Gly Gln Lys Tyr Gly Ile Leu Val Thr					
	100	105	110		
Asp Ser Leu Ser Val Asp Gly Leu Ala Gln Ser Met Ser Gln Leu Ile					
	115	120	125		
Asn Glu Tyr Asp Glu Asn Ile Gly Ala Trp Glu Thr Phe Ala Thr Thr					
	130	135	140		
Ser Ala Asn Gln Asn Ile Thr Val Thr Ile Asn Gly Ala Arg Val Thr					
	145	150	155		
Ile Pro Ala Ile Gly Lys Leu Val Gln Lys Gly Ser Asn Gly Ala Val					
	165	170	175		
Gly Val Ser Asp Gly Gly Thr Gly Ala Thr Asn Ala Ala Asp Ala Arg					
	180	185	190		
Thr Asn Leu Gly Leu Gly Thr Ser Ala Thr Arg Asn Val Gly Gly Ala					
	195	200	205		
Pro Gly Asn Val Met Glu Val Gly Ala Phe Gly Val Gly Leu Thr Asn					
	210	215	220		
Phe Thr Ala Asn Ser Val Ala Asp Ala Asn Asp Ile Thr Phe Asn Gly					
	225	230	235		
Phe Ser Gly Gly Gly Ala Ser Ser Val Asn Phe Phe Asp Gln Tyr					
	245	250	255		
Ala Gly Leu Leu Ala Ile Thr Arg Ser Gly Gly Gly Asp Gly Asn Gly					
	260	265	270		
Phe Ile Ala Gln Leu Gln Ile Ser Gly Ser Gly Ala Met Ala Val Arg					
	275	280	285		
Gly Arg Ala Gly Thr Thr Trp Ser Ser Trp Met Gln Val Tyr Asn Thr					
	290	295	300		
Gly Asn Thr Thr Lys Ala Ser Asp Gly Thr Leu Lys Ala Ala Ser Pro					
	305	310	315		
Val Ala Arg Ile Val Ala Ser Ala Asp Thr Cys Leu Arg Ser Asp Ile					
	325	330	335		
Ala Glu Asp Gly Phe Ser Trp Cys Gly Cys Gly Thr Ala Asn Thr Glu					
	340	345	350		
Ala Glu Gly Ile Lys Ile Leu Arg Leu Asp Val Gly Val Tyr Val Leu					
	355	360	365		
Thr Gly Ser Ser Gly Leu Ala Ser Glu Gly Trp Gln Leu Leu Pro Pro					
	370	375	380		
Met Asp Pro Gly Gly Met Gly Glu Leu Gly Val Val Glu Ala Glu Gln					
	385	390	395		
Thr Ala Asp Gly Glu Leu Thr Ile Arg Leu Phe Lys Arg Lys Tyr Met					
	405	410	415		
Leu Ser Asp Glu Gly Glu Ile Val Lys Thr Lys Gly Glu Pro Met Asp					
	420	425	430		
Val Pro Val Asn Ser Trp Ile Asp Val Arg Leu Asp Met Pro Asp Asp					
	435	440	445		
Ser Val Phe Asn Gln Arg Met Arg Gln Glu Pro Gln Leu Glu Pro His					
	450	455	460		
Ser Pro Ala Leu					
465					

<210> 10682

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10682

Pro Val Arg Val Trp Arg Ser Arg Cys Phe Thr Gly Ala Cys Pro Leu


```

1           5           10           15
Ile Tyr Pro His Asn Gly Leu Leu Tyr Leu Leu Ala Ile Thr Arg Leu
                20           25           30
Gly Ala Ala Ser Leu Leu Leu His Gly Leu Met Ala Ala Val Asn Pro
                35           40           45
Leu Thr Val Ser Arg Ser Leu Ala His Pro Pro Val Lys Thr Ile
                50           55           60

```

<210> 10683

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10683

```

Tyr Pro Thr Leu Thr Leu Val Val Ile Cys Leu Ala Ala Arg Leu Tyr
1           5           10           15
Met Thr Leu Met Arg Arg Met Pro Thr Pro Gly Asn Ile Asn Lys Lys
                20           25           30
Ser Asn Glu Thr Glu Thr Pro Val Ala Leu Ala Glu Arg Ala Phe Phe
                35           40           45
Ser Lys Lys Ser Gln Leu Gly Gln Asn Trp Leu Gly Leu Ala Val Ser
                50           55           60
Arg Tyr Tyr Phe Ala Leu Ile Ser Thr Cys Thr Leu Phe Leu
                65           70           75

```

<210> 10684

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 10684

```

Gly Met Leu Ser Val Gly Leu Ile Pro Ile Phe Arg Pro Arg Val His
1           5           10           15
Tyr Ile Asp Ile Asp Leu Asn Trp Gly Arg Phe Val Ile Ile Thr Ile
                20           25           30
Thr Gly Gln Leu Phe Ala Glu Phe Phe His Leu Gln Gln Pro Ala Val
                35           40           45
Asp Phe Asp Leu Leu Glu Thr Leu Ser Glu Leu Ala Ile Arg Gln Ala
                50           55           60
Glu Pro Leu His Tyr Arg Phe Lys His Ser Leu Thr Ala Asp Gly Cys
                65           70           75           80
Asp Phe Asp Thr Ile Leu Ala Asn Leu His Ala
                85           90

```

<210> 10685

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10685

```

Val Lys Ala Asn Ser Met Val Thr Lys Lys Ile Cys Asn His Leu Ser
1           5           10           15
Ile His Tyr Gln His Ser Thr Ala Ser Thr Leu Phe Leu Val Ser Phe
                20           25           30
Phe Glu Trp Arg Thr Gly Cys Tyr Val Ser Ser Met Met Ser Asn Asn
                35           40           45
Lys Glu Ser Leu Ile Lys Gln Ile Ser Glu Tyr Ala Arg Leu Asn Glu
                50           55           60
Gln Glu Glu Ile Gln Leu Arg Lys Ile Ile Ser
                65           70           75

```

<210> 10686
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 10686
 Met Pro Asn Ala Ser Asp Tyr Phe Ser Cys Asn His Ile Phe Ser Phe
 1 5 10 15
 Thr Val Arg Lys Val Gly Asp Leu Asp Thr Val Ile Val Ser Asn Pro
 20 25 30
 Ile Ile Ser Leu Phe His Asn Ser Pro Leu Lys Leu Phe His Leu Glu
 35 40 45
 Val Tyr Met Thr Ile Gln Asn Leu Val Val Asp Lys Thr Phe Phe Leu
 50 55 60
 Arg Met Trp Arg Arg Val Pro Pro Gly Asp Leu Ser Leu Val Val Lys
 65 70 75 80
 Val Ala Cys Ile Pro Ala His Ser Ser
 85 90

<210> 10687
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10687
 Lys Lys Ile Phe Phe Glu His Arg Phe Gln Asn Gly Phe Pro Phe Met
 1 5 10 15
 Pro Gly Ala Ala Gly Ala Val Ala Leu Asn Ile Arg His Val Ser Lys
 20 25 30
 Leu Ile Tyr Thr His Leu Ile Val Asn Thr Asn Lys Lys Thr Asn His
 35 40 45
 Val Tyr Tyr Phe Ile Asn Asp Ala Ile Leu Lys Ser Val
 50 55 60

<210> 10688
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 10688
 Thr Glu Met Thr His Thr Ala Val Ser Gln Ala Asn Ser Ala Leu Gln
 1 5 10 15
 Leu Pro Thr Val Glu His Val Tyr Ala Leu Leu Lys Ala Asn Cys Lys
 20 25 30
 Pro Asp Arg Phe Asp Gly Arg Asp Gly Pro Val Trp Gly Gln Glu Tyr
 35 40 45
 Ser Trp Asn Leu Ala Lys Asp Arg Leu Gln Asp Leu Glu Lys Tyr Gly
 50 55 60
 Lys Ala Tyr Val Ser Arg His Glu Asp Arg Met Gly Glu Gly Phe Ser
 65 70 75 80
 Phe Gly Pro Asp Leu Ile Ile Arg
 85 90

<210> 10689
 <211> 811
 <212> PRT
 <213> Enterobacter cloacae

<400> 10689
 Arg Gly Ile Arg Met Lys His Leu Ala Phe Ile Thr Ala Val Ala Gly
 1 5 10 15

Leu Gly Met Ser Val Gln Ala Pro Ala Gln Ile Tyr Glu Ser Ala Phe
 20 25 30
 Lys Asp Thr Asn Gly Ile Glu Ile His Ala Pro Ser Ser Arg Leu Met
 35 40 45
 Leu Asn Pro Ala Ser Pro Val Thr Leu Thr Leu Ile Ser Gly Leu Asp
 50 55 60
 Arg Phe Val Asn Val Lys Val Thr Lys Asp Thr Gly Thr Val Ile Leu
 65 70 75 80
 Asn Thr Thr Thr Thr Arg Thr Gly Val Ser Asp Arg Leu Thr Ala Ala
 85 90 95
 Asp Gly Ser Glu Phe Tyr Gly Lys Lys Val Thr Leu Pro Ala Leu Gly
 100 105 110
 Glu Gly Lys Phe Val Val Gln Ile Asn Val Leu Asp Leu Asn Gln Lys
 115 120 125
 Pro Val Ala Thr Tyr Asn Tyr Asn Trp Leu Ile Asp Val Thr Pro Pro
 130 135 140
 Ala Ala Asn Ala Leu Thr Ala Asn Thr Gly Ser Gly Ser Thr Ala Gly
 145 150 155 160
 Asp Val Trp Lys Leu Gly Leu Glu Ala Thr Gly Gln Tyr Asp Phe Thr
 165 170 175
 Ser Ser Gly Val Ser Asp Ala Asn Gly Ile Asp Lys Gly Leu Ile Tyr
 180 185 190
 Ile Tyr Arg Gln Asp Gly Ser Leu Tyr Ser Thr Thr Gln Met Gln Tyr
 195 200 205
 Asp Val Ser Gly Gln Lys Met Tyr His Thr Tyr Ser Lys Asn Ser Val
 210 215 220
 Lys Gly Thr Gly Ile Pro Asp Ser Asn Leu Asp Glu Asp Phe Thr Ala
 225 230 235 240
 Lys Val Val Ile Phe Asp Asn Ala Gly Asn Ser Arg Thr Leu Pro Thr
 245 250 255
 Gln Lys Phe Arg Tyr Asp Asn Thr Leu Gly Glu Met Thr Leu Trp Ala
 260 265 270
 Val His Asp Pro Asn Thr Ser Ser Ser Val Val Pro Gly Val Ser Asn
 275 280 285
 Tyr Pro Ala Tyr Lys Ala Gly Met Val Val Asn Glu Asn Pro Ile Arg
 290 295 300
 Leu Val Tyr Arg Ile Pro Lys Ser Asn Tyr Arg Ala Tyr Ser Glu Gly
 305 310 315 320
 Gly Leu Gln Phe Ile Asn Gln Tyr Ser Ala Pro Lys Glu Ile Ala Val
 325 330 335
 Asp Ser Thr Tyr Ala Tyr Val Glu Met Thr Leu Pro Tyr Gly Ser Ile
 340 345 350
 Asn Gly Asp Met Ala Arg Met Ala Asn Phe Gly Gln Trp Gly Gly Tyr
 355 360 365
 Tyr Pro Ser Tyr Ser Leu Val Leu Asn Pro Ser Ala Asn Gln Thr Pro
 370 375 380
 Ala Phe Ala Gly Thr Trp Val Asp Phe Leu Asp Asp Lys Gly Asn Trp
 385 390 395 400
 Val Lys Trp Lys Asp Phe Glu Ser Val Ala Ser Ser Arg Leu Pro Ile
 405 410 415
 Lys Ile Ser Arg Leu Arg Phe Asn Val Glu Ala Arg Pro Phe Ala Gln
 420 425 430
 Glu Ile Gly Gly Lys Ala Thr Cys Thr Ile Pro Ala Gly Lys Thr Ser
 435 440 445
 Cys Glu Ala Pro Glu Thr Phe Asp Met Ala Leu Gly Thr Gln Gly Tyr
 450 455 460
 Asn Arg Ile Leu Tyr Phe Val Arg Ser Ile Ser Asn Pro Ile Leu Arg
 465 470 475 480
 Ser Glu Gln Trp Ile Met Thr Arg Trp Asn Asn Lys Gln Leu Pro Val
 485 490 495
 Ile Asn Ser Ile Ser Tyr Asp Glu Thr Asn Lys Gln Leu Asp Val Leu

```

      500                      505                      510
Ala Ser Leu Glu Gly Asp Gly Asn Trp Phe Asp Ser Val Ser Leu Arg
      515                      520                      525
Glu Phe Tyr Leu Ser Asp Lys Asn Thr Gly Thr Arg Met Ser Pro Thr
      530                      535                      540
Gly Val Ile Lys Ser Arg Ile Ser Gly Asn Tyr Thr Ile Ala Tyr Asp
545                      550                      555                      560
Leu Ser Arg Gln Ser Glu Gly Lys Tyr Asn Val Glu Val Asn Ile Arg
      565                      570                      575
Asp Phe Phe Gln Asn Gln Thr Asn Lys Thr Phe Gly Glu Ile Ala Leu
      580                      585                      590
Asp Asn Thr Pro Pro Thr Val Ala Ile Thr Phe Asp Gly Lys Pro Val
      595                      600                      605
Lys Asp Asp Thr Val Val Tyr Gly Leu Glu Asn Leu Arg Ile Ala Leu
      610                      615                      620
Ala Asp Asn Leu Thr Thr Pro Arg Ile Thr Arg Leu Gln Leu Val Gly
625                      630                      635                      640
Gly Pro Thr Ala Asp Asn Val Glu Leu Thr Trp Ser Pro Ala Gly Lys
      645                      650                      655
Asp Thr Tyr Met Pro Glu Tyr Pro Arg Leu Phe Pro Asn Phe Glu Pro
      660                      665                      670
Ser Glu Asn Tyr Ser Ile Ser Val Thr Val Ala Asp Ser Gln Ser Asn
      675                      680                      685
Thr Lys Thr Tyr Thr Gln Lys Phe Ser Tyr Leu Pro Asn Asn Leu Val
      690                      695                      700
Gln Leu His Asn Leu Arg Thr Leu Ser Val Ser Ser Pro Leu Lys Thr
705                      710                      715                      720
Thr Asp Gly Val Pro Leu Ala Tyr Leu Ser Thr Asn Val Leu Arg Lys
      725                      730                      735
Thr Asn Gly Glu Ile Ala Lys Gly Val Gln Asn Ala Thr Leu Thr Val
      740                      745                      750
Arg Lys Asp Ala Ala Phe Gly Ile Lys Phe Asn Gly Ala Gln Ala Ala
      755                      760                      765
Pro Gly Glu Ser Val Glu Val Gln Ile Asp Met Gly Gln Gly Asp Asn
      770                      775                      780
Leu Leu Leu Pro Val Tyr Pro Ser Glu Asn Gly Lys Val Gly Thr Ser
785                      790                      795                      800
Glu Phe Met Ile Gln Ile Asp Glu Leu Lys
      805                      810

```

<210> 10690

<211> 265

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (212)

<400> 10690

```

Tyr Lys Ala Asn Thr Glu Lys Glu Asn Lys Met Tyr Lys Leu Val Ser
1      5      10      15
Pro Arg Glu Leu Thr Glu Ile Ile Thr Gly Leu Leu Leu Lys Pro Glu
      20      25      30
Leu Leu Gly Glu Leu Asp Ser Pro Glu Lys His Arg Met Phe Met Ala
      35      40      45
Asp Leu Gly Arg Val Val Ala Glu His Cys Gly Gly Leu Val Asn Ser
      50      55      60
Val Val Leu Pro Gly Thr Glu Val Thr Val Ser Asp Gly Leu Pro Leu
65      70      75      80
Asn Gly Gln Pro Val Arg Tyr Leu Gly Ile Lys Glu Asn Ile Pro His

```

```
<210> 10691
<211> 204
<212> PRT
<213> Enterobacter cloacae
```

Tyr	Gly	Lys	His	Asn	Trp	Lys	Asn	Met	Phe	Ser	Lys	Pro	Met	Thr	Thr
1			5						10					15	
Phe	Thr	Pro	Glu	Arg	Ile	Glu	Gln	Ile	Leu	Glu	Phe	Ala	Glu	Gly	Ser
			20					25					30		
Asn	Pro	Ser	Glu	Ala	Met	Ser	Leu	Arg	Ala	Asp	Glu	Val	Ala	Val	Leu
		35					40					45			
Ala	Arg	Ile	Gly	Lys	Ala	Val	Met	Ser	Ile	Ala	Pro	Val	Tyr	Gln	Cys
	50					55					60				
Glu	Phe	Cys	His	His	Asp	Ala	Thr	Gly	Gln	Leu	Gln	Trp	His	Trp	Glu
65				70					75					80	
Asp	Val	Asn	Lys	Ala	Phe	Tyr	Asp	Lys	Tyr	Asp	Pro	Asp	Arg	Arg	Gly
			85						90				95		
Arg	Arg	Arg	Ile	Leu	Tyr	Thr	Ala	Pro	Pro	Met	Pro	Leu	Val	Ser	Ala
			100					105					110		
Asp	Leu	Leu	Asn	Met	Ala	Ser	Ser	Ala	Ile	Glu	Asp	Leu	Leu	Thr	Asn
		115					120					125			
Lys	Asp	Arg	Ser	Gly	Ala	Gly	Met	Trp	Asn	Asp	Ile	Pro	Glu	Gln	Leu
	130					135					140				
Arg	Arg	Ala	Ala	Glu	Leu	Val	Met	Asp	Asn	Ser	Arg	Ala	Ala	Glu	Thr
145					150					155				160	
Glu	Ala	Met	Leu	Met	Arg	Leu	Tyr	Val	Glu	Cys	Asp	Thr	Gly	Glu	Arg
			165						170				175		
Arg	Gly	Asn	Gly	Thr	Gln	Ser	Gly	Val	Ala	Met	Pro	Ser	Trp	Gln	Thr
			180					185					190		
Val	Glu	Glu	Ala	Arg	Val	Leu	Leu	Gly	Val	Lys					
		195					200								

```
<210> 10692
<211> 66
<212> PRT
<213> Enterobacter cloacae
```

<400> 10692

Ala Phe Pro Lys Gly His Tyr Val Arg Lys Ser Ile Lys Asn Phe Ser
 1 5 10 15
 Ile Trp Cys Ser Lys Leu Gln Ile Tyr Asn Leu Pro Phe Asp Lys Pro
 20 25 30
 Tyr Cys Ala Phe Arg Thr Glu Ile Phe Leu Phe Gly Ile Thr Ser Asp
 35 40 45
 Ile Ser Val Val Ser Lys Leu Ala Thr Ile Ala Lys Leu Ile Thr Leu
 50 55 60
 Ala
 65

<210> 10693

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10693

Ala Thr Ser Leu Ser Glu His Cys Asp Gly Met His Asp Met Phe Asn
 1 5 10 15
 Val Arg Ala Phe Lys Glu Trp Trp Ile His Asn Asp Asn Ile Lys Ser
 20 25 30
 Phe Ile Gly Leu Val Pro Lys Lys Val Gly Met His Gln Leu Asp Ser
 35 40 45
 Cys Ala Lys Asp Thr Ile Val Leu His Cys Lys Glu Ser Leu Ile Val
 50 55 60
 Gln Phe Asp Pro Gly Asn Gln Cys Ile Arg Ser Arg Gln Phe
 65 70 75

<210> 10694

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 10694

Arg His Arg Pro Gly Gly Thr Gly His Lys Arg Lys Thr Ile Leu Lys
 1 5 10 15
 Pro Met Leu Lys Lys Asp Phe Phe Ser Ala Ile Glu Asn Leu Leu Lys
 20 25 30
 Ala Gly Phe Gln Pro Arg Phe Tyr Thr Val Asn Ser Gly Arg Ile Gly
 35 40 45
 Leu Ile Thr Phe Thr Asp Lys Asn Gly Thr Lys Gln Val Glu Gln Val
 50 55 60
 Tyr Ser Cys Thr Ser Leu Ala Ala Asn Thr Phe Gly Lys Arg Phe Thr
 65 70 75 80
 Thr Trp Leu Glu Glu Ile Phe Gln Lys His Asn Glu Glu Lys Val Ala
 85 90 95
 Asp Ser Gly Phe Glu Val Gly Ser Arg Val Trp Asp Lys Leu Met Tyr
 100 105 110
 Thr Leu Arg Thr Ile Ser Glu Ile Arg Ala Gly Gly Val Leu Val Leu
 115 120 125
 Asp Asn Gly Ala Gln Arg Thr Leu Asp Glu Val Gln Lys Thr Ala Pro
 130 135 140
 Glu Thr Asn Gln Val Glu Pro Lys Glu Ile Ser Ser Leu Gln Glu Leu
 145 150 155 160
 Leu Asn Ala Ser Lys Asn Leu Glu Pro Thr Ser Pro Glu Leu Ile Ala
 165 170 175
 Ala Leu Asn Glu Ala Leu Ser Thr Ala Ile Lys Arg
 180 185

<210> 10695
 <211> 72
 <212> PRT
 <213> Enterobacter cloacae

<400> 10695
 Pro Cys Thr Lys Met Met Glu Lys Gln Val Ala Lys Asn Asn Asn Ser
 1 5 10 15
 Leu Lys Gln His Val Phe Asn Met Leu Ser Ala Gly Ser Glu Leu Lys
 20 25 30
 Glu Val Lys Arg Phe Leu Thr Ser Lys Arg Val Lys Ala Arg Leu Ala
 35 40 45
 Val Ser Met Ile His Glu Gln Ala Ile Ala Val Gln Asn Thr Glu Tyr
 50 55 60
 Gln Asn Tyr Pro Ala Tyr Ser
 65 70

<210> 10696
 <211> 242
 <212> PRT
 <213> Enterobacter cloacae

<400> 10696
 Cys Val Pro Tyr Trp His Cys His Cys Pro Pro Ser Val Arg Ser Ala
 1 5 10 15
 Leu Gly Gly His Arg Asn Leu Met Arg Arg Val Thr Ala Ile Val Asn
 20 25 30
 Leu Asp Trp Ile Gly Glu Tyr Gly Phe Arg Leu Gly Gln Met Ser Met
 35 40 45
 Val Met Leu His Pro Ala His Tyr Cys Ser His Cys Arg Ser Ala Glu
 50 55 60
 Leu Met Leu Leu Ser Phe Tyr Val Ala Thr Thr Val Val Ser Pro Glu
 65 70 75 80
 Ser Asp Tyr Arg Cys His Gly Arg Pro Val Glu Arg Val Asn Leu Leu
 85 90 95
 Asn His Arg Val Thr Thr Val Leu Ser Pro Glu Ser His Tyr Arg Cys
 100 105 110
 His Gly Arg Leu Val Lys Arg Ile Tyr Leu Ser Ile His Arg Val Thr
 115 120 125
 Met Val Val Ser Pro Ala Ser His Tyr Arg Cys His Ser Arg Pro Val
 130 135 140
 Glu Gln Ile Asn Leu Leu Thr Tyr Arg Met Thr Thr Val Val Ser Leu
 145 150 155 160
 Leu Ser His Tyr Arg Cys His Cys His Pro Glu Glu Arg Met Ile Leu
 165 170 175
 Ser Ile His Thr Ala Thr Met Ala Leu Ser Pro Ala Ser His Phe Arg
 180 185 190
 Cys His Ser Leu Pro Glu Glu Gln Met Ser Leu Leu Ile Asn Arg Val
 195 200 205
 Thr Thr Val Val Ser Ser Leu Ser His Tyr Tyr Cys His Gly Arg Thr
 210 215 220
 Ala Glu Leu Ile Ile Leu Ser Ile His Thr Pro Thr Met Val Val Ser
 225 230 235 240
 Tyr

<210> 10697
 <211> 144
 <212> PRT
 <213> Enterobacter cloacae

<400> 10697

```

Met Ala Met Asn Lys Lys Glu Gln Ala Ala Tyr Asp Glu Leu Val Ala
1      5      10      15
Gln Ala Arg Ile Asn Arg Ala Leu Arg Trp Ser Asp Tyr Gly Val Glu
20      25      30
Arg Asp Met Pro Val Pro Glu Val Ser Gly Glu Tyr Gln Asn Gly Trp
35      40      45
Ser Phe Asn Thr Ala Thr Gly Thr Val Tyr Pro Thr Trp Ser Gly Thr
50      55      60
Thr Val His Gly Thr Arg Glu Gly Glu Val Val Asp Ala Thr Ser
65      70      75      80
Arg Arg Met Arg Gly Met Asn Gly Ser Gln Asn Gly Ile Pro Gln Tyr
85      90      95
Ser Thr Lys Glu Arg Ala Leu Lys Ala Leu Arg Cys Ser Leu Glu Ile
100      105      110
Lys Phe Ala Met Gln Leu Asp Ala Ile Asp Lys Ala Ile Ala Lys Glu
115      120      125
Ile Glu Leu Ser Thr Ala Arg Arg Glu Ser Asp Thr Ser Asp Ala
130      135      140

```

<210> 10698

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 10698

```

Leu Leu Leu Asp Leu Pro Pro Ser Gly Glu Asp Val Thr Val Asp Gly
1      5      10      15
Leu Glu Asn Val Arg Ile Gln Leu Thr Asp Ala Leu Thr Lys Pro Ser
20      25      30
Leu Ser Arg Met Thr Leu Arg Gly Gly Pro Val Ser Asp Ala Val Glu
35      40      45
Leu Ser Trp Val Asn Leu Gly Asn Asn Leu Tyr Ala Pro Asn Tyr Pro
50      55      60
Lys Ile Phe Pro Ser Leu Asn Glu Gly Glu Thr Tyr Thr Leu Thr Val
65      70      75      80
Gln Ala Lys Asp Glu Met Asn Asn Val Lys Glu Ser Ser Val Glu Phe
85      90      95
Asn Tyr Leu Pro Asn Asn Leu Val Arg Leu Glu Asn Leu Lys Thr Leu
100      105      110
Ala Val Asn Ala Ser Leu Lys Thr Ser Asp Asn Thr Pro Leu Ala Val
115      120      125
Leu Tyr Ala Ser Gln Leu Arg Lys Lys Asp Gly Ser Ile Ala Thr Gly
130      135      140
Leu Gln Asp Ala Val Leu Thr Val Arg Lys Asp Ala Ala Phe Gly Val
145      150      155      160
Thr Val Asn Gly Val Ser Ala Met Pro Gly Glu Ser Lys Glu Leu Gln
165      170      175
Leu Asp Leu Gly Leu Gly Asp Ser Arg Ser Phe Pro Ile Phe Pro Ala
180      185      190
Val Ser Gly Leu Thr Gly Arg Ser Glu Phe Met Ile Asn Ile Glu Glu
195      200      205
Leu Lys
210

```

<210> 10699

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 10699

Ser Cys Pro Pro Leu Ala Gly Arg Ala Ile His Gln Met Pro Ser Gly
 1 5 10 15
 Lys Pro Ser Ile Gln Ala Arg Asp Gln Arg Gly Leu Asn Ala Leu Lys
 20 25 30
 Glu Ala Val Pro Ala Thr Ala Gln Leu Gln Met Arg Val Thr Pro Glu
 35 40 45
 Arg Lys Leu Arg Tyr Val Asn Gln Ala Lys Ala Glu Gly Leu Gly Leu
 50 55 60
 Thr Asp Trp Val Gln Lys His Met Asp Asn Val Cys Asp Leu Ala Gly
 65 70 75 80
 Gln Pro Glu Ile Thr Met Tyr Lys Asp Asp Gly Glu Thr Ser Gly Gln
 85 90 95
 Lys

<210> 10700

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 10700

Pro Leu Arg Thr Val Thr Ser Leu Gln Phe Ile Lys Trp Ile Tyr Ile
 1 5 10 15
 Tyr Lys Pro Ala Thr Leu Lys Ser Ile Val Gly Ile Phe Leu Phe Ser
 20 25 30
 Cys Ser Val Asp Asn Lys Ile Val Val Lys Arg Gln Tyr Phe Leu Val
 35 40 45
 Glu Ile Ala Gln Asn Leu Val Tyr Phe Ser Tyr Glu Phe Leu Val Leu
 50 55 60
 Trp Pro Val Tyr Ile Pro Arg Asp Gln Arg Leu
 65 70 75

<210> 10701

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 10701

Ile His Leu Ile Asn Cys Asn Glu Val Thr Val Arg Asn Gly Gln Arg
 1 5 10 15
 Glu Val Trp Glu Met Arg Met Leu Pro Val Leu Pro Asp Glu Ser Leu
 20 25 30
 Phe Ser Arg Phe Cys Arg Thr Thr Val Tyr Gly Met Ser Pro Ser
 35 40 45
 Ser Leu Leu Thr Ile Ile Phe Asn Lys Pro Asp Met Asn Val His Pro
 50 55 60
 Ile Leu Asn Ser Gly Leu Lys Ala Ile Ser Leu His Thr Ser Glu Ser
 65 70 75 80
 Ala Asp Gln Leu Trp His Glu Gln Thr Leu Leu Pro Leu Phe Ala Trp
 85 90 95
 Ala Leu Pro Ile Ser Arg Asn Glu Ile Leu Asp Phe Asn
 100 105

<210> 10702

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 10702

Ser Leu Ser Ser Gly Ile Thr Pro Arg Leu Thr Thr Thr Asp Ser Pro
 1 5 10 15

Leu Ser Ser Ser Arg Met Met Phe Met Leu Leu Ser Cys Gln Ala Ala
 20 25 30
 Gly Lys Arg Val Lys Glu Pro Ser Trp Arg Val Tyr Phe Ile Ser Glu
 35 40 45
 Leu Gly Met Ile Tyr Ser Lys Asn Lys Ile Lys Ser Ala Lys Ile Tyr
 50 55 60
 Thr Ala Asn Ile Asn Tyr Cys Leu Ala Thr Gln Arg Asn Met Ile Ile
 65 70 75 80
 Arg Thr Leu Ala Leu Ser Phe Phe Pro Gln Lys Leu
 85 90

<210> 10703

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10703

Leu Leu Val Tyr Trp Leu Val Asp Met Phe Ser Ser Asn Leu Trp Met
 1 5 10 15
 Ser Lys Tyr Tyr Glu His Gln Arg Val Phe Ser Leu Leu Ile Tyr Pro
 20 25 30
 Pro Ile Phe Val Leu Tyr Asp Leu Phe Glu Lys Asn His Ile Leu Thr
 35 40 45
 Pro Thr Asp Pro Pro Thr Pro Ala His Ser Ala His Thr Gly Lys Gly
 50 55 60

65

<210> 10704

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 10704

Leu Leu Ala Leu Arg Phe Val His Ser Gly Ile Lys Ile Met Leu Asn
 1 5 10 15
 Arg Ile Thr Val Gln Leu Pro Val Glu Gly Leu Leu Phe Trp Lys Leu
 20 25 30
 Ser Gly Arg Glu Ala Met Ser Glu Ser Phe Ala Leu Thr Leu Thr Val
 35 40 45
 Leu Gly Thr Asp Ala Arg Ile Asp Arg Ser Arg Leu Leu Gly Gln Pro
 50 55 60
 Val Thr Val Thr Ile Pro Thr Gln Asn Leu Leu Thr Ser Arg Tyr Val
 65 70 75 80
 Asn Gly Lys Ile Thr Arg Val Ala Val Ser Ala Val Glu Leu Thr Gly
 85 90 95
 Thr Arg Tyr Ala Val Tyr Gln Leu Thr Val Glu Pro Asp Leu Trp Pro
 100 105 110
 Met Lys Arg Asp Arg Asn Leu Arg Ile Phe Gln Arg Pro Asn Gly Thr
 115 120 125
 Gln Ile Val Lys Thr Leu Leu Gly Glu His Gln Val Lys Pro Pro Lys
 130 135 140
 Thr Thr His Arg Gln Leu Pro Gly Val Gly Leu Leu Arg Ala Val Ser
 145 150 155 160
 Gly Val Glu Pro Gly Leu His Gln Pro Pro Asp Gly Ala Gly Gly Asp
 165 170 175
 Cys Val Leu Leu Pro Pro
 180

<210> 10705

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 10705

```

Ile Ile Pro Ser Ser Leu Met Lys Tyr Thr Leu Gln Glu Gly Ser Phe
1          5          10          15
Thr Leu Phe Pro Ala Ala Trp Gln Asp Asn Ser Met Asn Ile Arg
20          25          30
Asp Asp Glu Ser Gly Leu Ser Val Val Val Ser Arg Gly Val Ile Pro
35          40          45
Asp Asp Ser Asp Tyr Glu Gln Glu Phe His Arg Gln Trp Asp Val Leu
50          55          60
Arg Pro Gln Met Gly Glu Ile Ala Gln Ser Glu Phe Gln His Val Lys
65          70          75          80
Ala Gly Pro Asp Gly Asn Ile Ser Gly Leu Glu Val Glu Thr Thr Phe
85          90          95
Asp Arg Asn Gly Gln Arg Leu Trp Gln Lys Gln Leu Ala Val Gln Thr
100          105          110
Pro Gly Lys Pro Val Leu Met Ile Phe Thr Leu Ser Ala Leu Lys Ala
115          120          125
Phe Thr Glu Glu Asp Glu Ala Arg Trp Ser Ala Leu Lys Gln Ser Leu
130          135          140
Thr Leu Asn Asp Asn Arg Asn Val
145          150

```

<210> 10706

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 10706

```

Pro Ile His Leu Phe Met Leu Thr Glu Phe Tyr Leu Met Gly Gly Tyr
1          5          10          15
Lys Met Ile Asp Phe Asn Ala Asp Ile Leu Ser Gly Arg Ala Leu Gly
20          25          30
Asn Val Phe Leu Gly Asp Asn Ile Ser Lys Tyr Ile Ser Glu Leu Tyr
35          40          45
Ala Gly Tyr Lys Val Thr Tyr Phe Asp Tyr Phe Leu Pro Asp Asp Lys
50          55          60
Lys Arg Leu Ala Tyr Ile Val Asp Asp Thr Met Thr Ile Ala Thr Leu
65          70          75          80
Glu Asp Gly Thr Ile Ile Ser Ile Gly Cys Asn Val Asn Tyr Lys Gly
85          90          95
Arg Tyr Asn Lys Ile Leu Gln Thr Gly Gln Thr Met Gly Glu Ile Ile
100          105          110
Gly Leu Thr Tyr Lys Gln Arg Ile Phe Asn Gly Cys Ile Ile Ile Asn
115          120          125
Asp Asp Phe Gly Phe Ser Phe Glu Leu Pro Ala Pro Tyr Asp Glu Ile
130          135          140
Ala Asp Ser Ile Ala His Val Pro Leu Asp Leu Val Leu Asn Glu Ile
145          150          155          160
Arg Val Ala Asp Tyr Ser Asp Trp Asn Pro Gln Lys Ile Lys Arg
165          170          175

```

<210> 10707

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 10707

```

Ile Ile Met Ile Thr Met Glu Asp Ser Met Glu Ser Arg Met Ile Lys

```

```

1           5           10           15
Ala Thr Phe Leu Ile Val Leu Pro Leu Phe Ser Ile Phe Thr Tyr Ala
20           25           30
Gly His Asn Lys Met Asn Gln Asp Ser Leu Trp Gln Met Ile Lys Glu
35           40           45
Met Lys Ser Val Trp Gly Lys Gln Val Glu Asp Val Ser Lys Leu Phe
50           55           60
Asn Gln Pro Leu Ile Asn Asn Thr Gln Glu Lys Glu Asp Arg Tyr Thr
65           70           75           80
Ser Ala Pro Phe Thr Leu Thr Asp Gly Thr Arg Ile Ser Asn Val Asp
85           90           95
Val Arg Leu Trp Gly Asn Gly Asp Asn Ser Val Ser Leu Val Ser Phe
100          105          110
Val Val Asn Gln Pro Cys Ile Thr Leu Asp Gln Val Lys Ser His Phe
115          120          125
Pro Asp Leu Lys Leu Ser Asn Ile Pro Arg Gly Asn Thr Pro Gly Gln
130          135          140
Ser Val Gly Tyr Arg Thr Pro Thr Asp Glu Arg Gly Leu Ala Trp Ala
145          150          155          160
Phe Ser Phe Pro Val Leu Asn Gln Glu Cys Leu Gly Arg Val Val Met
165          170          175
Ser Arg Tyr Glu Gln
180

```

<210> 10708

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10708

```

Asn Thr Gln Arg Pro Ser Gln Arg Arg Trp Asp Tyr Tyr Tyr Arg Asn
1           5           10           15
Asn Leu Val Arg Glu Glu Arg Asp Asp Asn Pro Phe Lys Trp Tyr Arg
20           25           30
Trp Gln Tyr Asp Arg Gln Cys Arg Ala Ser Pro Gly Ser Gly Arg His
35           40           45
Ala Gly Arg Arg Gly Ala Gly Gly Leu Gly Cys Ser Arg
50           55           60

```

<210> 10709

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 10709

```

Arg Pro Asn Pro Arg Asn Arg Lys Lys Pro Gln Thr Gln Val Ser Phe
1           5           10           15
Arg Tyr Asp Pro Leu Gly Arg Arg Ile Ser Lys Thr Arg Arg Gln Lys
20           25           30
Leu Gly Gly Gln Pro Thr Gly Lys Pro Ser Pro Pro Gly Val Ser Gly
35           40           45
Asn Asp Cys Leu Leu Gly Glu Ala His Gly Asp Val Leu Phe Thr Tyr
50           55           60
Val Asp Glu Ser Gly Gln Asp Asn Tyr Asp Leu Leu Ala Arg Val Asp
65           70           75           80
Ser Val Asp Ala Ser Tyr Ile Phe Trp Val His Cys Gln Ser Asn Gly
85           90           95
Thr Ala Gln Leu Ile Thr Asp Ile
100          105

```

<210> 10710

<211> 82
 <212> PRT
 <213> Enterobacter cloacae

<400> 10710

Cys Phe Ser Ile Thr Ile Ile Trp Asn Lys Asn Lys Ser Leu Gly Asn
 1 5 10 15
 Ile Met Ser Asp Lys Ile Met Gln Thr Val Asp Leu Leu Ile Ser His
 20 25 30
 Ser Gln Ile Leu Leu Arg Ser Arg Asp Tyr Asp Glu Lys Leu Ser Gln
 35 40 45
 Trp Gly Lys Gly Asn Val Ser Gln Gly Ala Val Leu His Lys Asp Tyr
 50 55 60
 Ala Val Phe Val Leu Leu Pro Gln Gly Thr Gly Ile Arg Ala Met Gln
 65 70 75 80
 Cys Glu

<210> 10711
 <211> 83
 <212> PRT
 <213> Enterobacter cloacae

<400> 10711

Leu Pro Phe Trp Val Asn Ser Leu Gly Gly Pro Val Asn Arg Glu Glu
 1 5 10 15
 Thr Gly Leu Phe Arg Glu Ile Phe Met Lys Ala Arg Glu Ser Val Ile
 20 25 30
 Pro Phe Pro Ile Gly Ile Lys Gly Leu Leu Phe Gln Trp Glu Met Arg
 35 40 45
 Pro Val Phe Ala Leu Pro Asp Lys Leu Gly Gly Ile Gln Asn Ser Phe
 50 55 60
 Ile Glu Leu Met Asn Val Tyr Ala Glu Lys Thr Gly Ser Asp Gln Tyr
 65 70 75 80
 His Leu

<210> 10712
 <211> 63
 <212> PRT
 <213> Enterobacter cloacae

<400> 10712

Thr Leu Met Gly Phe Leu Arg Arg Trp Phe Lys Ser Gln Ala Gln Phe
 1 5 10 15
 Phe Phe Trp Thr Tyr Val Pro Ile Ile Leu Thr Phe Ile Phe Gly Tyr
 20 25 30
 Val Leu Asp Val Tyr Phe Pro Glu Val Ser Gln Gly Phe Ile Leu Leu
 35 40 45
 Phe Tyr Leu Val Thr Leu Gly Leu Ala Tyr Trp Ile Trp His
 50 55 60

<210> 10713
 <211> 115
 <212> PRT
 <213> Enterobacter cloacae

<400> 10713

Leu Ile Gly Cys Trp Thr Gly Arg Arg Arg Leu Ile Asp Ser Val Arg
 1 5 10 15
 Ser Gly Ala Leu Ile Leu Thr Leu Ser His Arg Ala Glu Gly Ser Pro

```
<210> 10714
<211> 252
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10715
<211> 242
<212> PRT
<213> Enterobacter cloacae
```

<400> 10715

Leu Gln Ser Gln Lys Ile Leu Ala Met Lys Leu Asp Arg Ala Val Arg
 20 25 30
 Asp Val Gly Glu Glu Val Lys Ser His Leu Asn Asn Ile Gly Ala Gly
 35 40 45
 Ala Gln Arg Leu Leu Tyr Tyr Thr Ser Cys Phe Thr Asp Glu Tyr Tyr
 50 55 60
 Asp Val Cys Thr Arg Gln Asn Leu Glu Asp Ala Arg Phe Arg Lys Gly
 65 70 75 80
 Ile Phe His Leu Ile Ser Arg Trp Asn Ile Val Phe Asp Leu Ile Asn
 85 90 95
 Thr Tyr Val Glu Glu Leu Val Lys Asp Tyr Ser Pro Ala Glu Leu Ser
 100 105 110
 Ala Ile Gln His Ala Leu Met Arg Ala Asn Val Tyr Ile Ser Thr Ser
 115 120 125
 Thr Leu Thr Ser Tyr Ser Phe Ser Ala Gly Val Ala Ser Thr Val Cys
 130 135 140
 Leu Tyr Val Thr Leu Pro Ser Gly Leu Lys Val Val Ser Gly Leu
 145 150 155 160
 Thr Gly Ala Ala Ile Gly Gly Leu Gly Ile Tyr Gly Val Val Gln Lys
 165 170 175
 Ala Ala Asp Ser Ala His Arg Leu Gln Val Met His Pro Ala Tyr Tyr
 180 185 190
 Gln Ala Leu Tyr Leu Gln Glu Leu Glu Met Met Tyr Phe Leu Val Glu
 195 200 205
 Pro Ala Phe Met Arg Ala Gly Val Leu Thr Gln Gln Trp Thr Asp Ser
 210 215 220
 Gln Ser Pro Tyr Asp Ala Ala Asp Thr Ile Leu Lys Leu Met Gly Arg
 225 230 235 240
 His

<210> 10716

<211> 639

<212> PRT

<213> Enterobacter cloacae

<400> 10716

Ser Ile Thr Asp Lys Asp Leu Thr Pro Met Lys Lys Met Leu Thr Leu
 1 5 10 15
 Ser Leu Leu Ala Leu Cys Val Ser His Gly Ala Ala Ala Ala Asn Tyr
 20 25 30
 Ala Leu Ser Asn Asp Asn Ile Ala Leu Ser Phe Asp Asp Ala Asn Ala
 35 40 45
 Thr Val Val Val Thr Asp Ser Lys Ser Asn His Pro Leu Thr Pro Gln
 50 55 60
 Glu Leu Phe Phe Leu Thr Leu Pro Asp Glu Thr Lys Ile His Thr Ala
 65 70 75 80
 Asp Phe Lys Ile Lys His Val Glu Lys Gln Asp Asn Ala Ile Val Ile
 85 90 95
 Asp Phe Thr His Pro Asp Phe Asn Val Thr Val Lys Leu Asn Leu Val
 100 105 110
 Lys Gly Lys Tyr Ala Ser Ile Gly Tyr Thr Ile Ala Ala Val Gly Gln
 115 120 125
 Pro Arg Asp Val Ala Lys Ile Thr Phe Phe Pro Thr Lys Lys Gln Ser
 130 135 140
 Gln Ala Pro Tyr Val Asp Gly Ala Ile Asn Ser Ser Pro Ile Val Ala
 145 150 155 160
 Asp Ser Phe Phe Ile Leu Pro Asp Lys Pro Ile Val Asn Thr Tyr Ala
 165 170 175
 Tyr Glu Ala Thr Thr Asn Leu Asn Val Glu Leu Lys Thr Pro Ile Leu
 180 185 190

Pro Glu Thr Pro Val Ser Phe Thr Thr Trp Phe Gly Thr Phe Pro Glu
 195 200 205
 Thr Asn Gln Leu Arg Arg Ser Val Asn Gln Phe Ile Asp Ala Val Arg
 210 215 220
 Pro Arg Pro Tyr Lys Pro Tyr Leu His Tyr Asn Ser Trp Met Asp Ile
 225 230 235 240
 Gly Phe Phe Thr Pro Tyr Ser Glu Gln Asp Val Ile Gly Arg Met Asp
 245 250 255
 Glu Trp Asn Lys Glu Phe Ile Ala Gly Arg Gly Val Ala Leu Asp Ala
 260 265 270
 Phe Leu Leu Asp Asp Gly Trp Asp Asp Arg Thr Gly Arg Trp Leu Phe
 275 280 285
 Gly Pro Ala Phe Ser Asn Gly Phe Gly Lys Val Arg Glu Lys Ala Asp
 290 295 300
 Ser Leu His Ser Ser Val Gly Leu Trp Leu Ser Pro Trp Gly Gly Tyr
 305 310 315 320
 Asn Lys Pro Arg Asp Ile Arg Val Ser His Ala Lys Glu Tyr Gly Phe
 325 330 335
 Glu Thr Val Asp Gly Lys Leu Ala Leu Ser Gly Pro Asn Tyr Phe Lys
 340 345 350
 Asn Phe Asn Asp Gln Ile Ile Lys Leu Ile Lys Asn Glu His Ile Thr
 355 360 365
 Ser Phe Lys Leu Asp Gly Met Gly Asn Ala Asn Ser His Ile Lys Gly
 370 375 380
 Ser Pro Phe Ala Ser Asp Phe Asp Ala Ser Ile Ala Leu Leu His Asn
 385 390 395 400
 Met Arg Ser Ala Asn Pro Asn Leu Phe Ile Asn Leu Thr Thr Gly Thr
 405 410 415
 Asp Ala Ser Pro Ser Trp Leu Phe Tyr Ala Asp Ser Ile Trp Arg Gln
 420 425 430
 Gly Asp Asp Ile Asn Leu Tyr Gly Pro Gly Thr Pro Val Gln Gln Trp
 435 440 445
 Met Thr Tyr Arg Asp Ala Glu Thr Trp Arg Ser Ile Val Arg Lys Gly
 450 455 460
 Pro Leu Phe Pro Leu Asn Ser Leu Met Tyr His Gly Ile Val Ser Ala
 465 470 475 480
 Glu Asn Ala Tyr Tyr Gly Leu Glu Lys Val Gln Thr Asp Ser Asp Phe
 485 490 495
 Ala Asp Gln Val Trp Ser Tyr Phe Ala Thr Gly Thr Gln Leu Gln Glu
 500 505 510
 Leu Tyr Ile Thr Pro Ser Met Leu Asn Lys Ala Lys Trp Asp Thr Leu
 515 520 525
 Ala Gln Ala Ala Lys Trp Ser Arg Glu Asn Ala Ser Val Leu Val Asp
 530 535 540
 Thr His Trp Ile Gly Gly Asp Pro Thr Ser Leu Gln Val Tyr Gly Trp
 545 550 555 560
 Ala Ser Trp Ser Lys Asp Lys Ala Ile Phe Gly Leu Arg Asn Pro Ser
 565 570 575
 Asp Lys Pro Gln Arg Tyr Tyr Leu Asp Leu Thr Lys Asp Phe Glu Ile
 580 585 590
 Pro Ala Gly Glu Arg Ser Gln Phe Thr Leu Lys Ala Val Tyr Gly Ser
 595 600 605
 Asn Ser Thr Val Pro Glu Glu Tyr Lys Asn Ala Val Val Ile Thr Leu
 610 615 620
 Gln Pro Leu Glu Thr Leu Val Phe Glu Ala Met Pro Gly Lys
 625 630 635

<210> 10717

<211> 98

<212> PRT

<213> Enterobacter cloacae

[illegible]

<211> 124

<213> Enterobacter cloacae

Ala	Trp	Ala	Leu	Gly	Phe	Lys	Ala	Ile	Asn	His	Ala	Gly	Ser	Lys	Met
1			5						10					15	
Leu	Cys	Val	Gly	Gly	Arg	Ala	Ile	Ala	Thr	Thr	Glu	Asp	Phe	Val	
			20				25					30			
Ala	Val	Glu	Gln	Arg	Leu	Asn	Gln	Cys	His	Arg	Cys	Thr	Arg	Asp	Arg
		35					40					45			
Val	Arg	Lys	Gly	Phe	Arg	Arg	Gly	Asn	Leu	Arg	Leu	Asn	Ala	Phe	Cys
	50					55					60				
Glu	Ala	His	Phe	Asn	Ser	Phe	Glu	His	Gly	Ile	Pro	Leu	Lys	Ser	Tyr
65					70					75					80
Leu	Cys	Val	Phe	Ala	Lys	Arg	Val	Phe	Lys	Pro	Val	Asp	Arg	Ile	Ser
			85						90					95	
Gly	Glu	Gly	Tyr	His	Ile	Glu	Thr	Ala	Ile	His	Ser	Ile	Lys	Thr	Pro
			100					105					110		
Ile	Met	Ala	Gly	Lys	Pro	Gln	Val	Gly	Ser	Leu					
		115					120								

<211> 135

<213> Enterobacter cloacae

Val 1	Asp	Asn	Val	Leu 5	His	Gln	His	Ser	Trp 10	Lys	Arg	Ala	Ala 15	Leu
Thr	Ala	Leu	Phe 20	Ala	Ile	Leu	Leu	Ile 25	Val	Val	Ala	Pro	Leu 30	Ser
Val	Ser	Leu 35	Gln	Lys	Asp	Pro	Met 40	Ser	Ala	Met	Pro	Gly 45	Met	His
Asp	Met	Ser	Met	Met	Ser	Val 55	Asp	Glu	His	His	Gly 60	Asp	Met	Pro
Ser 65	Met	Pro	Val	Asp	His 70	Ala	Glu	Ala	Cys	Gly 75	Tyr	Cys	Val	Leu
Ala	His	Val	Pro	Gly 85	Val	Met	Leu	Ala	Leu 90	Ile	Val	Leu	Ser 95	Val
Val	Leu	Gln	Arg 100	Leu	Arg	Val	Lys	Pro 105	Pro	Arg	Gln	Ala	Val 110	Ser
Trp	His	Phe	Phe	Pro	Trp	Leu	Tyr	Pro	Asp	Thr	Arg	Ala	Pro	Arg

115 120 125
 Arg Ser Ala Phe Ser Leu
 130 135

<210> 10720
 <211> 93
 <212> PRT
 <213> Enterobacter cloacae

<400> 10720
 Arg Gly Ser Ile Asn Trp Leu Ser Cys Pro Ser Ala Arg Asp Trp Ala
 1 5 10 15
 Ser Ala Arg Ala Ser Trp Asn Leu Leu Val Arg Arg Ser Arg Arg Ile
 20 25 30
 Thr Pro Pro Ile Thr Gly Gln Ile Cys Tyr Trp Arg Leu Asn Glu Val
 35 40 45
 Ile Pro Gln Leu Phe Lys Val Asn Asn Leu Asn Tyr Val Lys Arg Lys
 50 55 60
 Arg Arg Val Pro Asp Arg Leu Asp Ser Leu Gly Tyr Ile Ser Gln Met
 65 70 75 80
 Lys Leu Ala Ile Arg Pro Val Val Leu Ser Arg Arg
 85 90

<210> 10721
 <211> 97
 <212> PRT
 <213> Enterobacter cloacae

<400> 10721
 Leu Leu Lys Cys Lys Phe Met Ser Ala Leu Arg Ile Glu Leu Glu Lys
 1 5 10 15
 Gly Phe Thr Asn Glu Gly Val Val His Glu Leu Ser Trp Ile Pro Gly
 20 25 30
 Val Gln Thr Gly Arg Gly Leu Cys Ala Ile Pro Pro Gly Lys Gly Ile
 35 40 45
 Asp Leu Trp Gln Lys Lys Pro Arg Lys Thr Gln Ser Phe Thr Tyr Arg
 50 55 60
 Phe Ala Ser Tyr Ala Phe Phe Cys Ile His Pro Glu Asp Lys Ser Phe
 65 70 75 80
 Ser Gly Ile Thr Thr Gln Cys His Thr Pro Glu Asn Cys Tyr Glu Cys
 85 90 95

<210> 10722
 <211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 10722
 Ser Gly Phe Asn Lys Ser Leu Asn Arg Val Tyr Ser Gly Val Val Tyr
 1 5 10 15
 Cys Thr Lys Arg Ser Arg Glu Arg Met Leu Gln Arg Thr Tyr Asp Ser
 20 25 30
 Ile Arg Phe Ser Gly Ser Ala Tyr Val Ala Gly Tyr Arg Arg Val Gln
 35 40 45
 Ala Ala Tyr Ala Ala Ser Arg Val Ser Pro Leu Ser
 50 55 60

<210> 10723
 <211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 10723

```

Thr Ser Leu Gly Thr Gly Gly Ser Thr Val Met Gln Val Pro Glu Leu
1      5      10      15
Thr Asp Asp Ala Val Val Glu Leu Ala Arg Glu Gly Gly Val Ala Phe
20      25      30
Ile Pro Lys Leu Ser Gly Gln Arg Thr Ile Ala Leu Ser Thr Leu Asn
35      40      45
Glu Ala Gln Arg Gln Arg Val Val Asn Ile Leu Glu Gln Ala Ile Pro
50      55      60
Arg Gly Gln Pro Pro Gly Gln Ala Ser Ser Pro Gly Ser Gly Asp Gln
65      70      75      80
Arg Tyr Phe Arg Ile Gln Ile Ile Trp Thr Arg His Asn Gln Ala Gln
85      90      95
Tyr Thr Asp Ile Ile Val Leu Val Pro Glu Gln Glu Ala Pro Glu Ser
100      105      110
Leu Ile Glu Leu Trp Gln Lys Gly Glu Gly Cys Val Cys Asp
115      120      125

```

<210> 10724

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 10724

```

Arg Phe Ile Lys Gly Ile Leu Arg Val Asp Ile His Asp His Thr Gln
1      5      10      15
Ile Ser Glu Gln Gly Val Ala Asp Leu Leu Ala Asp Thr Glu Phe Ala
20      25      30
Gly Asn His Ser His Leu Pro Gly Asn Ile Thr Tyr Thr Leu Cys Ala
35      40      45
Gly Asn Ile Ser Leu Phe Lys Leu His Asp Ala Thr Gly Lys Pro Phe
50      55      60
Gln Ile Gln Pro Phe Arg Val Gly Ser Asp His Arg Val Ile Gly Gly
65      70      75      80
Leu Thr Glu Leu Leu Tyr Lys Leu Tyr Ile Thr Thr Arg Ile Tyr Cys
85      90      95
Gly Ile Gly Asp Asp Phe Leu Glu
100      105

```

<210> 10725

<211> 284

<212> PRT

<213> Enterobacter cloacae

<400> 10725

```

Phe Pro Leu Arg Asp Ser Asp His Lys Phe Ser Ile Pro Ile Phe Ser
1      5      10      15
Leu Glu Pro Val Pro Ser Ser Val Ile Leu Ser Ile Thr Leu Trp Ser
20      25      30
Gln Glu Met Ser Arg Lys Ile Met Val Val Thr Ala Ala Tyr Gly Ala
35      40      45
Asp Gln Val Arg Gln Ala Gly Gly Gln Arg Ala Met Leu Pro Val Ile
50      55      60
Ala Gly Ala Gly Ala Asp Gly Val Glu Ile Arg Arg Glu Leu Phe Ser
65      70      75      80
His Asp Glu Leu Met Ala Leu Pro Ala Leu Gly Glu Ser Ile Glu Leu
85      90      95
Leu Gly Leu Leu Ala Cys Tyr Ser Ala Pro Ala Pro Leu Phe Met Pro

```

100 105 110
 Asp Gly Thr Leu Asn Pro Asp Leu Pro Arg Tyr Leu Ser Glu Ala Ser
 115 120 125
 Ala Leu Asn Ala Leu Trp Leu Lys Val Ser Leu Gly His Phe Ser Asp
 130 135 140
 Lys Gln Pro Leu Glu Ala Leu Arg Ala Leu Leu Asp Glu Ser Gly Met
 145 150 155 160
 Thr Leu Val Val Glu Asn Asp Gln Thr Asp Cys Gly Gln Leu Ala Pro
 165 170 175
 Met Gln Arg Phe Lys Ala Ala Cys Arg Val Met Ala Leu Pro Val Thr
 180 185 190
 Leu Thr Phe Asp Met Gly Asn Trp Leu Trp Val Gly Asp Ser Pro Glu
 195 200 205
 Glu Ala Ala Arg Gln Leu Ala Pro Ala Val Ser Tyr Ile His Val Lys
 210 215 220
 Ala Ala Val Pro His Lys Ala Gln Phe Arg Ala Val Ala Pro Asp Gln
 225 230 235 240
 Thr Asp Ser Arg Trp Arg Asp Leu Leu Asn Gln Leu Pro Ala Asp Ala
 245 250 255
 Pro Arg Gly Ile Glu Phe Pro Leu Glu Gly Thr Asp Leu Thr Ala Val
 260 265 270
 Thr Arg His Tyr Val Asn Leu Leu Arg Glu Glu
 275 280

<210> 10726

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 10726

Met Thr Ser Val Ile Phe Ile Lys His Lys Lys Thr Pro Pro Lys Arg
 1 5 10 15
 Gly Phe Phe Leu Phe Arg Ser Ser Asp Arg Cys Ala Pro Gly Leu Ala
 20 25 30
 Lys Gly Leu Met Leu Gly Arg Glu Arg Thr Asp Gln Arg Val Ile Leu
 35 40 45
 Ala Arg Leu Leu Gly Gly Arg Glu Leu Asp Thr Val Arg Asp Lys Ala
 50 55 60
 His Leu Arg Thr Leu Phe Thr Asn Lys Val Thr His Leu Asp Gln Leu
 65 70 75 80
 Leu Ser Lys Asp Leu Arg Arg Arg Asp Gln Arg Leu Gln Ser Val
 85 90 95

<210> 10727

<211> 249

<212> PRT

<213> Enterobacter cloacae

<400> 10727

Gly Gly Thr Met Asn Asp Ala Ile Ile Thr Asp Asn Glu Arg Ile Asn
 1 5 10 15
 Ile Glu Pro Lys Asp Val Met Val Lys Gly Ser Asn Lys Lys Gln Gly
 20 25 30
 Val Asn Ala Gln Thr Ser Thr Gln Arg Arg Pro Glu His Gln Gly Met
 35 40 45
 Ala Lys Val Ile Ile Asn Pro Gly Thr Pro Asp Phe Asn Arg Phe Leu
 50 55 60
 Thr Ala Arg Asn Gly Ala Val Ile Arg Gly Phe Asp Asp Val Ser Ile
 65 70 75 80
 Ala Ile Ser Ser Leu Phe Lys Thr Val Asp Ala Val Lys His Pro Asp
 85 90 95

Leu Val Gln Ala Ile Gln Asp Trp Phe Asn Glu Leu His Glu Glu Asn
 100 105 110
 Asn Lys Met Lys Glu Asn Leu Val Ala Tyr Ile Lys Ser Ile Glu Phe
 115 120 125
 Asp Lys Asn Asp Ser Phe Met Ser Ser Thr Gln Phe Val Pro Phe Ser
 130 135 140
 Phe Glu Pro Val Gln Leu Asn Phe Asn Asn His Asn Thr Met Arg Phe
 145 150 155 160
 Tyr Lys Tyr Ile Phe Glu Met Asn Gln Leu Met Asn Thr Met Tyr Glu
 165 170 175
 Tyr Asn Ser Leu Gly Leu Leu Ala Val Ser Asp Tyr Pro Val Met Ser
 180 185 190
 His Asn Ile Ile Lys Ser Ile Asn Leu Tyr Val Glu Asn Val Lys Lys
 195 200 205
 Thr Leu Asn Val Ser Arg Arg Lys Asp Gly Pro Tyr Ser Pro Ala Glu
 210 215 220
 Phe Ile Thr Lys Val Met Gln Tyr Lys Ser Val Gln Ala Tyr Ile Ala
 225 230 235 240
 Ala Glu Leu Ser Gly Lys Arg Arg
 245

<210> 10728

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10728

Gly Met Met Met Asn Phe Arg Ala Leu Tyr Leu Cys Ile Lys Arg Ile
 1 5 10 15
 Leu Gly Ile Phe Ser Ser Gln Glu Asn Asp Ala Thr Ser Val Met Ile
 20 25 30
 Glu Asp Ile Ser Ser Leu Ser Pro Phe Ala Gln Ile Leu Gly Asp Gln
 35 40 45
 Lys Tyr Thr Val Pro Asp His Pro Asn Pro Glu Val Leu Lys Phe Ile
 50 55 60
 Glu Tyr Pro Thr Arg Pro Thr Gly Ile Gln Thr Phe Asn Glu Gln Ser
 65 70 75 80
 Ile Leu Ser Leu Tyr Arg Glu Lys Leu His Ser Ile Ser Met Met Leu
 85 90 95
 Ala Ile Ser Asp Ser Asp Ile Arg Asp Asp Ala Tyr Thr Phe Thr Asn
 100 105 110
 Leu Val Leu Lys Pro Leu Val Glu Tyr Val Arg Trp Ile His Leu Leu
 115 120 125
 Pro Ala Ser Glu Asn His His Asn Gly Ile Gly Gly Leu Leu Ser
 130 135 140
 His Ser Leu Glu Val Ala Ile Leu Ser Leu Lys Asn Ala His His Ser
 145 150 155 160
 Glu Leu Arg Pro Ile Gly Tyr Gln Asp Glu Glu Val Val Arg Arg Lys
 165 170 175
 Val Tyr Leu Tyr Ala Ala Phe Ile Cys Gly Leu Val His Asp Ala Gly
 180 185 190
 Lys Val Tyr Asp Leu Asp Ile Val Ser Leu Asn Leu Ala Ser Pro Ile
 195 200 205
 Ile Trp Thr Pro Ser Ser Gln Ser Leu Leu Asp Trp Ala Arg Glu Asn
 210 215 220
 Asp Val Val Glu Tyr Glu Ile His Trp Arg Lys Arg Ile His Asn Gln
 225 230 235 240
 His Asn Ile Trp Ser Ser Val Phe Leu Glu Arg Ile Leu Asn Pro Val
 245 250 255
 Cys Leu Ala Phe Leu Asp Arg Val Asn Lys Glu Arg Val Tyr Ser Lys
 260 265 270

Met Ile Thr Ala Leu Asn Val Tyr Thr Asp Gly Asn Asp Phe Leu Ser
 275 280 285
 Lys Cys Val Arg Thr Ala Asp Phe Tyr Ser Thr Gly Thr Asp Leu Asn
 290 295 300
 Val Leu Arg
 305

<210> 10729

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 10729

Arg Pro Leu Pro Asn Gly Gly Asn Ser Glu Cys Ile Thr Ser Val Gln
 1 5 10 15
 Phe Pro His Gln Arg Ala Phe Lys Asn Leu Leu Phe Val Lys Lys Asn
 20 25 30
 Gly Asn Phe Leu Arg Tyr Ser Asn Phe Thr Ser Gly Gly Val Met Ser
 35 40 45
 Asn Ser Asn Leu Ile Ser Ser Ile Glu Leu Thr Arg Lys Asn Leu Arg
 50 55 60
 Ala Gln Ile Glu Gly Leu Arg Val Glu Ala Glu Asp Leu Ile Thr Lys
 65 70 75 80
 Tyr Trp Ile Lys Trp Lys Glu Arg Asn His Gln Glu Ile Asn Leu Thr
 85 90 95
 Arg His Ser Lys Val Pro Lys Arg Glu Tyr Leu Gly Ser Tyr Ala Pro
 100 105 110
 Lys Val Glu Leu Ile Gly Asn Ala Arg Lys Val Thr Ile Thr Trp His
 115 120 125
 Gln Phe Ser Pro Tyr Lys Thr Arg Ala Pro Ser His Met Ser Lys Arg
 130 135 140
 Val Gln Pro Met Lys Ser Gly Lys Tyr Ser Lys Asn Cys Phe Val Asn
 145 150 155 160
 His Ala Ser Trp Glu Tyr Glu Met Ile Ser Glu Thr Glu Ala Leu Leu
 165 170 175
 Glu Pro Tyr Arg Glu Met Leu Glu Leu Tyr His Ser Ala Tyr Ile Glu
 180 185 190
 Leu Gly Arg Lys Ile Arg Gln Tyr Ser Lys Thr Lys Val Ala Gln
 195 200 205

<210> 10730

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10730

Leu Asn Ile Ser Asn Lys Ile Phe Phe His Leu Ile Val Phe Phe Met
 1 5 10 15
 Gln Leu Val Glu Pro Ile Leu Asn Ser Leu Asn Lys Val Arg Met Phe
 20 25 30
 Asn Cys Ile Asn Arg Phe Lys Glu Arg Gly Asn Ser Asp Thr His Ile
 35 40 45
 Ile Lys Thr Ser Asp Asp Cys Ser Ile Ser Gly Ser
 50 55 60

<210> 10731

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10731

```

Ser Ser Lys Ile Ser Ile Ala Phe Gly Thr Leu Ser Lys Val Lys Gly
1      5      10      15
Arg Ser Val Ile Asp Thr Arg Cys Glu Val Met Lys Pro Ala
      20      25      30
Ile Phe Asn Lys Ser Phe Phe Asp Ser Lys Ser Lys Ser Lys Leu Leu
      35      40      45
Thr Phe Ile Thr Ser Leu Ser Asp Leu Ala Phe Lys Thr Lys Glu
      50      55      60

```

<210> 10732

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 10732

```

Leu Glu Gln Phe Gln Arg Val Ser Leu Phe Ala Phe Pro Trp Leu Phe
1      5      10      15
Pro Ile Thr Val Cys Arg Val Asn Lys Ser Leu Trp Gly Glu Ile Val
      20      25      30
Cys Ser Ala Asp Ala Phe Asn Ala Asp Asp Gln Trp Tyr Asp Val Val
      35      40      45
Arg Arg Ala Asp Asn Ala Val Ile Tyr Ser Phe Pro Ala Glu Gly Arg
      50      55      60
Tyr Leu Val Tyr Arg Val Asn Gly Ile Val Ser Leu Arg Pro Leu Leu
      65      70      75      80
Glu Glu Glu Glu Ile Phe Thr Leu Asn Gly Phe Met Gln Phe Ala Lys
      85      90      95
Arg Leu Gly Tyr Arg Ile Thr Pro Pro Ser Asp Ile Ile Leu Ser
      100      105      110

```

<210> 10733

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 10733

```

Cys Ala Thr Glu Arg Thr Met Ala Leu Glu Leu Gln Leu Ile Lys His
1      5      10      15
His Ser Gly Ile Leu Ile Pro Ala Thr Pro Glu Thr Ser Asp Ile Leu
      20      25      30
Gln Ser Lys Thr Arg Leu Gly Asp Val Leu Val Ala Glu Phe Arg Arg
      35      40      45
Val Arg Lys Pro Ala Phe His Arg Arg Phe Phe Ala Leu Leu Asn Leu
      50      55      60
Gly Phe Glu Tyr Trp Glu Pro Thr Gly Gly Ala Ile Ser Ser Asn Glu
      65      70      75      80
Arg Lys Leu Ile Thr Gly Tyr Ala Lys Leu Leu Ala Ser Tyr Gly Gly
      85      90      95
Asn Glu Gly Ala Leu Ile Asp Ala Ala Glu Gln Tyr Leu Glu Gln Val
      100      105      110
Ala Tyr Arg Arg Val Thr Asn Gly Ile Ser Leu Cys Lys Ser Phe Asp
      115      120      125
Ala Tyr Arg Ser Trp Val Ile Val Glu Ala Gly His Phe Asp Ala Ile
      130      135      140
Gln Leu Pro Asp Gly Thr Leu Lys Lys His Pro Arg Ser Ile Ser Phe
      145      150      155      160
Ala Asn Met Asp Glu Phe Glu Phe Gln Gln Leu Tyr Lys Ala Ala Leu
      165      170      175
Asp Val Leu Trp Arg Trp Val Leu Ser Arg Ser Phe Arg Ser Arg Asp
      180      185      190
Glu Ala Glu Asn Val Ala Ala Gln Leu Leu Gly Phe Ala Gly

```

195

200

205

<210> 10734

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10734

Ala Glu Gly Arg Phe Ser Arg Thr Phe Leu Gln Ser Val Gln Pro Ala
 1 5 10 15
 Arg Gly Asn Glu Cys Cys Asp His Phe His Arg Glu Ala Pro Gly Thr
 20 25 30
 Thr Pro Ser Val Ile Ala Asn Leu Ala Ile Tyr Ala Cys Phe Ser Glu
 35 40 45
 Gln Ala Phe Phe Ser Phe Ile Asn His Pro Phe Asp Leu Leu Pro Val
 50 55 60
 Asp
 65

<210> 10735

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10735

Lys Gln Met Ala Gly His Ser Glu Glu Met Val Cys Tyr Glu Arg Glu
 1 5 10 15
 Ala Asp Ser Thr Val Asp Phe Ile Asn Thr Gln Gly Leu Leu Leu Lys
 20 25 30
 Ile Val Ile Gln Phe Tyr Cys Met Arg Tyr Pro Ile Ile Val Leu Pro
 35 40 45
 Phe Tyr Ser Phe Ile Val Ser Phe Ile Tyr Asp Ile Asn Gly
 50 55 60

<210> 10736

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10736

Ile Tyr Ile Leu Ala Ile Leu Ser Arg Val Ala Cys Pro Ser Lys Arg
 1 5 10 15
 Leu Tyr Cys Ala Cys Ser Gly Glu Asn Leu Pro Ile Leu Phe Ser Gly
 20 25 30
 Tyr Arg Ala Ser Leu Pro Phe Ser Trp Ala Glu Glu Val Thr Arg Val
 35 40 45
 Ser Glu Thr His Ala Ser Asp Glu Ala Tyr Ser Ala Ala Leu Ser Val
 50 55 60
 Phe Gly Glu Lys Asp Leu Val Glu Leu Thr Ile Val Ile Ala Thr Met
 65 70 75 80
 Asn Ala Ile Asn Arg Met Gly Ile Ser Phe Arg Met Lys Pro Leu Ala
 85 90 95
 Lys Ala

<210> 10737

<211> 87

<212> PRT

<213> Enterobacter cloacae

<400> 10737

Ala Ser Leu Lys Ser Pro Pro Leu Ala Val Lys Arg His Leu Met Lys
 1 5 10 15
 Leu Arg Ile Thr Arg Ala Ile Gly Leu Ser Lys Phe Ser Pro Arg Trp
 20 25 30
 Val Lys Val Ile Cys Leu Arg Leu Thr Lys Asn Asp Ile Glu Arg Ser
 35 40 45
 Leu Asn Ala Leu Leu Ala Thr Ile Asp Glu Ser Glu Leu Thr Pro Glu
 50 55 60
 Gln Val Lys Ala Leu Arg Glu Cys Ile Asp Arg Ile Asn Ile Ala Arg
 65 70 75 80
 Gly Lys Gly Met Gln Ala
 85

<210> 10738

<211> 274

<212> PRT

<213> Enterobacter cloacae

<400> 10738

Trp Arg Lys Asp Asn Gln His Thr Ser Glu Ser Asp Asn Leu Ser Arg
 1 5 10 15
 Ser Leu Leu Gly Lys Leu Phe Arg Ser Glu Ile Ser Leu Ile Ser Ser
 20 25 30
 Tyr Arg Ala Cys Leu Met Leu Leu Val His Gly Tyr Ser Ala Tyr
 35 40 45
 Gln Thr Gly Thr Pro Leu Leu Gln Arg Arg Leu Phe Gly Lys Gly Phe
 50 55 60
 Ser Thr Ala Ala Asp Leu Ala Phe Glu Val Glu Thr Arg Pro Gly Ser
 65 70 75 80
 Phe Leu Val Pro Arg Thr Leu Gly Lys Glu Ile Thr Trp Glu Arg Phe
 85 90 95
 Phe Ser Ala Val Leu Asp Gly Asp Ser Asn Val Ile Arg Glu Tyr Asp
 100 105 110
 Thr Asn Asp Ile Asp Tyr Gly Ile Tyr Asp Ala Gly Glu Lys Val Thr
 115 120 125
 Phe Leu Asn Gly Thr Val Asp Ile Tyr Asn Pro Lys Lys Ile His Glu
 130 135 140
 Leu Arg Ser Lys Cys Val Asp Ile Gln Asn Asp Tyr Phe Met Gln Val
 145 150 155 160
 Phe Phe Ile Ser Met Leu Ala Pro Glu Phe Val Ser Ile Phe Phe Gly
 165 170 175
 Leu Lys Pro Thr Thr Ala Asp Ala Ile Lys Asp Ile Gly Tyr Ser Ser
 180 185 190
 Leu Lys Thr Ile Asn Asp Val Val Leu Phe Pro Arg Thr Ile Ala Phe
 195 200 205
 Ser Gln Gly His Ile Glu Glu Ser Val Ser Leu Lys Thr Lys Val Phe
 210 215 220
 Ala Trp Ala Tyr Glu Leu Ser Ala Asp Ile Arg Leu Gly Lys Val Ser
 225 230 235 240
 Asp Asp Leu Met Glu Leu Leu Arg Tyr Asp Thr Met Phe Thr Ser His
 245 250 255
 Arg Gln Asp Val Phe Asn Thr Leu Thr Asn Lys Val Met Leu Lys Asp
 260 265 270
 Tyr

<210> 10739

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 10739

Gly Asn Lys Met Lys Lys Leu Met Met Leu Val Ile Ser Gly Thr Val
 1 5 10 15
 Leu Ala Gly Cys Val Ser Pro Ala His Ala Ile Asn Ala His Tyr Arg
 20 25 30
 Ala Gln Leu Glu Arg Ser Gly Cys Thr Gln Ile Ser Ala Gly Asn Gly
 35 40 45
 Ser Cys Asp Val Ser Lys Thr Lys Ala Glu Asn Thr Ala Gln His Glu
 50 55 60
 Pro Thr Ala Ser Val His Asp Pro Leu Arg Glu Ala Ser Phe Ser Ser
 65 70 75 80
 Asp Thr Val Asn Ala Thr Leu Ser Asn Gly Phe Phe Ser Ala Thr Val
 85 90 95
 Asn Gly Lys Lys Ala Ser Val Lys Arg Leu Asn Ala Asn Phe Tyr Glu
 100 105 110
 Ile His Gly Asn Gly Phe Val Ile Ser Ile Ser Leu Asp Glu Asn Gly
 115 120 125
 Ile Thr Asp Ala Ser Trp Asn Lys Thr Lys Gly Arg Glu His Gly Val
 130 135 140
 Leu Arg Val Ser Gln Lys
 145 150

<210> 10740

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 10740

Gly Val Val Leu Glu Trp Lys Glu Ser Phe Arg Tyr Val Phe Asp Asn
 1 5 10 15
 Gln Tyr Tyr Lys Lys Ile Phe Leu Leu Asn Glu Lys His Asn Ser Leu
 20 25 30
 Phe Asp Ile Val Phe Asn Tyr Tyr Ala Ile Ile Trp Leu Arg Ile Phe
 35 40 45
 Thr Gly Ser Ala Ser Gly Ser Cys Trp Lys Thr Gly Asp Asp His Arg
 50 55 60
 Lys Cys Lys Arg Ser Ser Gly Glu Ala Asp
 65 70 75

<210> 10741

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 10741

Lys Val Lys Lys Gln Met Gly Pro Glu Lys Asn Ala Ala Asn Ile Glu
 1 5 10 15
 Pro Phe Val Thr Gly Leu Asn Gly Leu Phe Val Tyr Cys Phe Val Thr
 20 25 30
 Gln Gly Thr Gly Gln Gly Arg Thr Pro Phe Val Trp Gly Arg Leu His
 35 40 45
 Phe Met Leu Asn Lys Asn Ser Ser Leu Arg Met Ile Cys Gln His Cys
 50 55 60
 Lys Ile Arg Gln Lys Ser Val Thr Asn Arg Ala Ile Gly Arg Arg Lys
 65 70 75 80
 Gly Gly Arg Glu Pro Tyr Ala Val Tyr Phe
 85 90

<210> 10742

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10742

```

Ile Tyr His Phe His Leu Trp Thr Leu Val Ile Ala Phe Tyr Thr Phe
1          5          10          15
Ser Phe Glu Ser Ile Phe Cys Ile Ile Asp Asn Ile Asn Phe Ser Leu
20          25          30
Gln Gly Glu Leu Met Ser Asn Ile Asp Ala Thr Ala Val Ala Gln Arg
35          40          45
Ile Asp Thr Val Leu Asp Ile Leu Val Ala Gly Asp Tyr His Ser Ala
50          55          60
Ile Arg Asn Leu Glu Ile Leu Lys Ser Glu Leu Leu Ala Glu Asn Gly
65          70          75          80
Ala Asp Asn Ala Pro Glu Ser Thr Gln Pro Lys Ala Pro Trp Glu Val
85          90          95

```

<210> 10743

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 10743

```

Gln Leu Val Ala Lys His Met Pro Ile Gly Ile Val His Phe Phe Lys
1          5          10          15
Ile Ile Gln Ile Glu Val Asn Tyr Ala Asn Leu Arg Val Thr Pro Ser
20          25          30
Gly Asp Gly Ile Arg Asp Gln Leu Met Asp Gly Ile Ser Val Arg Gln
35          40          45
Thr Gly Asn Arg Ile Arg Ile Gly Glu Asn Ala Gln Ala Leu Leu Gly
50          55          60
Pro Thr Leu Leu Gly Tyr Val Gly Thr
65          70

```

<210> 10744

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 10744

```

Arg Glu Leu Ile Met Ser Gln Glu Leu Glu Phe Ser Leu His Pro Pro
1          5          10          15
Val Trp Pro Ala Ile Val Tyr Phe Val Val Ser Val Ala Ile Phe Phe
20          25          30
Leu Leu Tyr Leu Gly Lys Leu Lys Val Asn Arg Leu His Lys Tyr Pro
35          40          45
Leu Phe Ile Ala Tyr Leu Val Phe Val Ile Ala Val Ala Ala Val Gln
50          55          60
Ile Asn Ile Phe Ala Asn Gly Tyr Glu Phe Val Arg Ser Phe Leu His
65          70          75          80
Ile Asp Phe Asp Pro Tyr Arg Tyr Asp Ser Val Tyr Trp Gly Ser Leu
85          90          95
Phe Phe Ser Ile Ile Tyr Leu Leu Ala Leu Pro Arg Asn Lys Phe
100          105          110

```

<210> 10745

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10745

Lys Ala Ala Cys Trp Pro Leu Pro Phe Arg Glu Ala Ile Ala Thr Gly
 1 5 10 15
 Asp Gly Tyr Tyr Leu Val Trp Pro Lys Asn Ser Leu Lys Arg Glu Ser
 20 25 30
 Ile Gln His Leu Leu Ala Trp Leu Gln Asn His Thr Pro Val Val Pro
 35 40 45
 Ala Leu Asp Ile Asp Tyr Leu Glu Tyr Asp Asp Ser Arg Val Tyr
 50 55 60

<210> 10746

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 10746

Lys Cys Val Cys Leu Ile Val Arg Leu Ser Gly Lys Ser Ile His Ser
 1 5 10 15
 Gly Ile Ala Arg His Ala Phe Arg Arg Asp Lys Met Lys Ile Ala Leu
 20 25 30
 Met Met Glu Asn Ser Gln Ala Ala Lys Asn Pro Ile Ile Leu Asn Glu
 35 40 45
 Leu Lys Ala Val Ala Asp Glu Lys Gly Phe Pro Val Tyr Asn Val Gly
 50 55 60
 Met Ser Asp Glu Asn Asp His His Leu Thr Tyr Ile His Leu Gly Ile
 65 70 75 80
 Met Ala Ser Ile Leu Asn Ala Lys Ala Val Asp Phe Val Val Thr
 85 90 95
 Gly Cys Gly Thr Gly Gln Gly Ala Leu Met Ser Leu Asn Ile His Pro
 100 105 110
 Gly Val Ile Cys Gly Tyr Cys Ile Asp Pro Ala Asp Ala Phe Leu Phe
 115 120 125
 Ala Gln Ile Asn Asn Gly Asn Ala Leu Ser Leu Pro Phe Ala Lys Gly
 130 135 140
 Phe Gly Trp Gly Ala Glu Leu Asn Val Arg Phe Ile Phe Glu Lys Ala
 145 150 155 160
 Phe Thr Gly Arg Asn Gly Glu Gly Tyr Pro Pro Glu Arg Lys Glu Pro
 165 170 175
 Gln Val Arg Asn Ala Gly Ile Leu Asn Gln Val Lys Ala Ala Val Val
 180 185 190
 Lys Glu Asn Tyr Leu Asp Thr Leu Arg Ala Ile Asp Pro Glu Leu Val
 195 200 205
 Lys Thr Ala Val Ser Gly Gln Arg Phe Gln Gln Cys Phe Phe Glu Asn
 210 215 220
 Cys Gln Asp Lys Glu Ile Glu Ala Phe Val Arg Gly Ile Val Gly
 225 230 235 240

<210> 10747

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 10747

Ile Val Ile Met Arg Gly Thr Gly Ala Asn Met Thr Leu Asp Ala Leu
 1 5 10 15
 Phe Gln Leu Met Lys Ile Ile Ser Pro Ser Glu Thr Pro Ser Asp Gly
 20 25 30
 Asn Leu Ala Asn Phe Met Thr Met Leu Ile Ser Thr Lys Asn His Ser
 35 40 45
 Asp Ala Leu Leu Pro Phe Ser Gln Arg Ala Tyr Met Leu Ser Val Ala
 50 55 60

Tyr Ser Asp Pro Gln Lys Ala Ala Ala Leu Leu Ser Ser Cys Gln Pro
 65 70 75 80
 Gly Ala Gly Asn Pro Leu Pro Leu Leu Asn Phe Ser Gly Trp Pro Asp
 85 90 95
 Val Arg Tyr Ala Thr Ser Gly Glu Leu Gln Thr Pro Glu Ser Glu Asp
 100 105 110
 Tyr Phe His Lys Ile Ser Ser Ala Ala Thr Leu Leu Arg Ala Ala Ile
 115 120 125
 Ile Asp Ala Glu Gln Gln Lys Asn Thr Pro Ala Phe Tyr Ile Leu Asp
 130 135 140
 Lys Val Leu Ser Leu Asn Ser Ala Leu Pro Glu Arg Tyr Lys Lys Met
 145 150 155 160
 Ala Asn Ile Ser Tyr Ser
 165

<210> 10748

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 10748

Glu Thr Ile Ala Val Met Glu Asn Val Lys Gln Ser Ala Pro Pro Pro
 1 5 10 15
 Asp Phe Val Val Glu Ala Met Gly Glu Tyr Val Glu Lys Tyr Ile Thr
 20 25 30
 Ala Ile His Phe Ile Pro Arg Asp Asp Arg Asp Pro Gly Asp
 35 40 45
 His Trp Gly Thr Gly Trp Leu Val Glu Glu Cys Asn Arg Pro Leu Leu
 50 55 60
 Ala Thr Cys Glu His Val Ala Ser Lys Gln Leu Gln Gly Ile Leu Gly
 65 70 75 80
 Tyr Ser Cys His Gly Ser Glu Ser Gly Ile Ser Val Gly Gly Lys Phe
 85 90 95
 Thr Val Tyr Pro Phe Glu Leu Asp Phe Ala Arg Ala Asp Ile Ser Lys
 100 105 110
 Thr Phe Asn Met Val Asp His Lys Gly Glu Cys Thr Asn Lys Glu His
 115 120 125
 Tyr Ala Asp Ser His Ser Pro Val Ala Asp Glu Tyr Leu Tyr Val Tyr
 130 135 140
 Gly Phe Pro Gly Val Asp Ala Gln Ala Gly Phe Gly Gln His Glu Ile
 145 150 155 160
 Arg Gly Met Gly Val Phe Leu Arg Glu Val Glu Phe Asp Pro Ser Ala
 165 170 175
 Phe Thr Glu Ala Pro Val Pro Val Leu Gly Glu His Ile Ser Cys Ala
 180 185 190
 Trp Ser Thr Asn Leu Ala Ser Pro Leu Met Gly Thr Thr Gly Asn Leu
 195 200 205
 Ser Leu Pro Asp Gly Met Ser Gly Ser Pro Leu Trp Asn Thr Arg Tyr
 210 215 220
 Thr Glu Val Thr Asn Ala Gly Gly Ile Trp Thr Pro Cys Asp Ser Arg
 225 230 235 240
 Ile Thr Gly Ile Val Trp Gly His Ser Ala Lys Met Thr Arg Leu Phe
 245 250 255
 Ala Thr Pro Val Glu Ser Phe Lys Asp Leu Leu Phe Lys
 260 265 270

<210> 10749

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10749

Ser Ile His Val Val Tyr Pro Arg Gln Lys His Arg Gly Arg Leu Tyr
 1 5 10 15
 Leu Gln Ser Pro Cys Asp Ser Lys Ser Lys Gly Gly His His Arg Leu
 20 25 30
 Thr Phe Ile Lys Leu Thr Phe Gly Lys Arg Ile Cys Ala Thr Ala Leu
 35 40 45
 Gln Trp Asp Pro Gly Lys Arg Cys Ile Asp Phe Ala
 50 55 60

<210> 10750

<211> 672

<212> PRT

<213> Enterobacter cloacae

<400> 10750

Gly Thr Lys Met Arg Gly Ser Lys Glu Lys Ser Met Pro Asp Val Leu
 1 5 10 15
 Asp Ser Ala Gln Leu Val Arg Ile Glu Ala Val His Arg Gly Phe Leu
 20 25 30
 Tyr Gln His Leu Tyr Ala Val Gly Cys Leu Leu Leu Ala Gln Lys Ala
 35 40 45
 Ser Val Glu Thr Val Thr Val Glu Leu Asp Glu Asp Ile Glu Leu Asn
 50 55 60
 Ser Arg Gln Glu Arg Ile Tyr Val Gln Val Lys Thr Arg Leu Lys Pro
 65 70 75 80
 Ile Ile Leu Ser Asp Val Ser Gly Ala Leu Ala Arg Phe Ala Glu Leu
 85 90 95
 Arg Asn Glu His Thr Asp Gly Arg Arg Gln Gly Ser Ala Ser Phe Val
 100 105 110
 Ile Val Ala Asn Gln Ala Pro Gly Pro His Leu Gln Lys Met Ile Glu
 115 120 125
 Asp Lys Thr Leu Pro Ala Asp Val Arg Phe Ile Trp Pro Gln Ser Thr
 130 135 140
 Ala Glu Arg Tyr Pro Val Leu Pro Pro Ala Trp Asp Thr Val Ala Asp
 145 150 155 160
 Ala Ala Ala Trp Cys Ile Ala Gln Ala Glu Gln Leu Asn Phe Ser Leu
 165 170 175
 Leu Ser Pro Glu Ser Leu Ile Trp Lys Leu Ala Gly Leu Val Gln Leu
 180 185 190
 Ala Ala Thr Gly Asp Ala Asp Gly Gln His Ala Phe Tyr Thr Arg
 195 200 205
 Asp Leu Pro Ala Leu Phe Glu Gln Leu Ile Val Gln Leu Gln Asp Phe
 210 215 220
 Pro Ala Pro Pro Thr Leu Tyr Arg Pro Gln Arg Glu Glu Pro Ser Phe
 225 230 235 240
 Val Ser Asp Glu Arg Ile Arg Ile Ile Cys Gly Leu Ser Gly Ala Gly
 245 250 255
 Lys Thr Ala Trp Ala Ala Gln Ala Ala Gln His Ser Thr Gln Val Cys
 260 265 270
 Ala Tyr Tyr Asp Ala Gly Asp Leu Pro Gly Pro Ala Leu Ala Ser Thr
 275 280 285
 Leu Val Arg Glu Leu Ala Ala Arg Phe Ala Thr Gln Glu Gln Gly Gly
 290 295 300
 Leu Arg Arg Ile Leu Leu Pro Gly Ala Ser Gly Val Glu Ala Leu Arg
 305 310 315 320
 Thr Phe Asp Thr Phe Leu Gln Gln Arg Asn Asp Asn Leu Leu Leu Val
 325 330 335
 Leu Asp Asn Ala His Arg Ile Pro Val Glu Asn Leu Arg Asp Val Leu
 340 345 350
 His Ala Thr Thr Arg Ile His Phe Val Leu Leu Cys Gln Pro His Asp

```

      355                      360                      365
Asn Val Arg Gln Leu Glu Ala Met Thr Gly Leu Gln Arg Glu Ser Leu
      370                      375                      380
Gln Gly Trp Asp Ile Asp Thr Val Ala Ala Ala Val Ala Asp Leu Gly
      385                      390                      395
Gly His Ala Ser Ala Leu Gly Tyr Glu Gln Leu Arg Ser Tyr Thr Gly
      405                      410                      415
Gly Leu Pro Leu Tyr Val Glu Ser Ala Ala Arg Val Ala Ala Glu Glu
      420                      425                      430
Tyr Lys Gly Asp Ile Asp Thr Leu Cys Ala Glu Leu Arg Gln Gln Glu
      435                      440                      445
Asn Ser Thr Glu Thr Ala Gln Glu Val Ile Leu Ser Arg Val Tyr Gln
      450                      455                      460
Gly Phe Glu Pro Leu Val Gln Asn Ala Leu Ala Leu Phe Ser Leu Ser
      465                      470                      475
Asp Val Gly Leu Ser Arg Asp Glu Val Ser Gly Tyr Leu Ala Arg Ser
      485                      490                      495
Leu Asn Ile Pro Pro Asn Gly Ala Ala Thr Leu Ile Lys Lys Met Arg
      500                      505                      510
Ala Thr Gly Thr Ile Glu Asn Tyr Gly Asn Gln Thr Leu Lys Val His
      515                      520                      525
Asp Ala Val Arg Ala Leu Gly Leu Gln His Leu Thr Met Met Asp Val
      530                      535                      540
Asp Ile Val Asn Asn Ala Leu Leu Ala Leu Lys Asp Leu Leu Ile Glu
      545                      550                      555
Ser Leu Gln Gln Glu Arg Asp Thr Ser Arg Phe Ser Leu Leu Thr Gln
      565                      570                      575
Ile Tyr Ile Lys Leu Asn Asp Val Met Thr Leu Ile Gly Leu Ser Gly
      580                      585                      590
Glu Glu Leu Phe Tyr Glu Met Gly Ile Thr Val Asp Ile Met Glu Ser
      595                      600                      605
Leu Lys Gln Ala Thr Ala Ser Asp Ser Leu Ala Pro Leu Gln Lys Phe
      610                      615                      620
Trp Ala Leu Asp Gly Leu Val Phe Ser Glu Leu Lys Asp Gly Val Ser
      625                      630                      635
Glu Gln Ile Ala Gln Trp Leu Glu Ala Met Gly Ala Leu Leu Thr Glu
      645                      650                      655
His Glu Phe Gly Cys Pro Asp Ser Tyr Leu Cys Lys Ser Glu Asp
      660                      665                      670

```

<210> 10751

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 10751

```

Val Gln Glu Thr Met Met Arg Ile Leu Cys Leu Asp Ile Pro Ala Pro
1      5      10      15
Gly Ala Ser Leu Glu Lys Tyr Ala Pro His Leu Asn Ala Glu Ala Leu
20      25      30
His Ala Trp Gly Leu Tyr Lys Ser Gly Phe Ile Arg Asp Ile Tyr Phe
35      40      45
Arg Gln Asp Arg Pro Gly Val Ala Ile Phe Leu Glu Cys Asp Ser Val
50      55      60
Asp Glu Ala Met Asn Val Met Ala Glu Phe Pro Leu Ala Lys Ala Gly
65      70      75      80
Leu Leu Ser Phe Glu Cys Ile Pro Leu Gly Ser Phe Ile Asn Trp Glu
85      90      95
Asn Leu Phe Ala Ala Glu Phe Lys Asn Lys Glu
100      105

```

<210> 10752
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 10752

```

Asn Leu His Ser Trp Glu Trp His Asp Phe Asp Gln Glu Ser Thr Glu
1      5      10      15
Val Glu Ala Asp Glu Phe Asp Gln Tyr Asn Phe Asp Val Glu Lys Asn
20      25      30
Asp Val Val Thr Arg Glu Phe Trp Ala Gly Ser Val Ala Thr Gly His
35      40      45
Arg Tyr Ala Ile Gly Phe Val Lys Ser Glu Asn His Ser Met Leu Asn
50      55      60
Ser Phe Leu Gly Asn Ala Gln His Asn Gly Lys Ser Leu Thr Ile Pro
65      70      75      80
Glu Ser Gly Ala Trp Val Val Ser Phe Asp Leu Ala Asp Gly Glu Asn
85      90      95
Ser Tyr Glu His Val Glu Leu Asp Pro Arg Ala Leu Arg Asn Leu Val
100     105
Asp Gly Val Ala Arg Ala Leu Tyr Asp His Tyr Asn Val Ser Lys Ala
115     120     125
Gly Leu Tyr Phe Trp Ile Ala Ala Arg Glu Glu Leu Val Ser Ile Tyr
130     135     140
Asp Lys Ala Leu Gly Leu Val Pro Glu Lys Thr Leu Lys Leu Lys Pro
145     150     155     160
Leu Pro Leu Thr Glu Asn Leu Asn Gln Leu Gly Glu Asn Gly Arg Gly
165     170     175
Tyr Ala Ile Ile Thr Lys Tyr Tyr
180     185

```

<210> 10753
 <211> 202
 <212> PRT
 <213> Enterobacter cloacae

<400> 10753

```

Ala Arg Thr Gly Gly Val Met Pro Ser Ser Arg Asn Thr Thr Glu Asn
1      5      10      15
Pro Thr Ala Asp Gln Leu Tyr Glu Glu Val Thr Arg Lys Leu Lys Thr
20      25      30
Ala Ser Ser Asn Ile Ala Lys Arg Lys Leu Glu Ser Gly Glu Tyr Val
35      40      45
Met His Asn Gly Arg Ile Ile Pro Ala Ser Val Leu Glu Ala Asn
50      55      60
Ala Glu Asn Ala Ile Ser Lys Arg Arg Ser His Gly Ala Ile Pro Leu
65      70      75      80
Pro Ser Phe Thr Arg Lys Ser Glu Glu Ala Arg Pro Leu Val Pro Val
85      90      95
Trp Ile Gly Gly Asp Glu Gln Asp Asn Gly Glu Trp Lys Gly Ser Arg
100     105     110
Lys Ser Ile Ala Ala Ala Ser Val Gln Thr Ser Leu Arg Pro Pro Met
115     120     125
Arg Val Arg Ala Ala Ala His Phe Arg Gly Lys Thr Gln Thr Val Asp
130     135     140
Val His Leu Asp His Ser Gly Ile Ala Pro Lys His Gly Gln Ile Phe
145     150     155     160
Ala Tyr Asp Ala Lys Ser Gly Gln Phe Ile Pro Val Ile Ser Gly Ser
165     170     175
Gly Thr Met Ala Gln Asp Asn Arg Arg Ala Lys Asp Arg Lys His Ala
180     185     190

```


Gly Leu Leu Ala Ala Arg Lys Ser Lys
195 200

<210> 10754

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 10754

Arg Gln Gly Arg Ser Val Met Leu Asn Arg Asn Leu Glu Val Leu Thr
1 5 10 15
Ser Tyr Phe Asn Asp Leu Leu Glu Ser Ala Pro Gln His Arg Asp Asn
20 25 30
Val Val Ala Ile Leu Ala Gln Ile Met Lys Ser Arg Pro Val
35 40 45
Phe Ser Leu Glu Pro Ser Ile Leu Leu Ala Arg Lys Glu Ile Asp Lys
50 55 60
Cys Thr Ile Cys Lys Lys Gln Val Leu Cys Asp Glu Trp Pro Glu Thr
65 70 75 80
Leu Phe Cys Gly Leu Pro Val Ser Asp
85 90

<210> 10755

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10755

Ala Arg Ala Cys Ser Leu Ser Thr Gly Gly Val Tyr Gly His Asn His
1 5 10 15
Asp Leu His Leu Asn Leu Arg Lys Lys Leu Leu Thr Ile Thr Asp Thr
20 25 30
Gln Asn Arg Thr Asn Asp Leu Phe Asn Gln Val Arg Gln Glu Leu Ser
35 40 45
Leu Tyr Gly Ile Glu Phe Glu Asp Ile Thr Val Thr Gln His Leu Asn
50 55 60
Val Arg Ala Gly Gln
65 70

<210> 10756

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 10756

Ser Arg Asp Leu Phe Ser His Trp Ser Pro Gln Ser Cys Trp Pro Val
1 5 10 15
Lys Lys Ser Ile Ser Ala Gln Tyr Val Arg Ser Arg Cys Ser Val Met
20 25 30
Ser Gly Gln Lys Arg Tyr Phe Val Ser Arg Tyr Pro Thr Asp Ser
35 40 45
Glu Pro Lys Gly Ile Gly Phe Ser Pro Val Gly Asp Gly Lys Val Pro
50 55 60
Glu Glu Tyr Leu Thr Phe Arg Leu Asp Val Glu His Val Ile Gln Thr
65 70 75 80
Ile Asn Ala Leu Phe Glu Asn Asp Lys Val Lys Arg Leu Glu Ala Tyr
85 90 95
Glu Gln Val Phe Gln Ser Ala Gln Val Arg Phe Ser Gly Arg Glu Thr
100 105 110
Asp Phe Val Pro Ala Ser Gln Ala Leu Asn Glu Leu Lys Lys Thr Ile
115 120 125

Leu Ser Ser Ser Trp Val Phe Val Arg Asn Arg Ile Met Gly Val Tyr
 130 135 140
 Gly Leu Tyr Ala Leu Leu Ile Ile Ile Leu Gly Met Thr Gln Tyr
 145 150 155 160
 Phe Phe Thr Ala Glu Leu Lys Asn Val Pro Ala Val Leu Ile Gly Thr
 165 170 175
 Cys Thr Gly Ser Trp Leu Phe Val Ser Ile Lys Thr Lys Asn Ile Val
 180 185 190
 Phe Asp Glu Ile Tyr Glu Asn Met Ser Gln His Arg Ser Leu Leu Met
 195 200 205
 Arg Leu Ile Tyr Cys Cys Thr Leu Ser Ser Ala Val Thr Ala Cys Leu
 210 215 220
 Leu Ala Gly Phe Phe Glu Ile Lys Ile Gly Glu Val Ser Thr Ala Leu
 225 230 235 240
 Ile Pro Asp Asn Ala Ile Ile Ala Leu Ala Ala Gly Ile Phe Phe Gly
 245 250 255
 Leu Gly Glu Ser Ser Leu Ala Thr Arg Leu Ser Gly Lys Val Lys Asn
 260 265 270
 Ser Ile
 275

<210> 10757

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 10757

Arg His Ser Pro Lys Thr Ile Pro Leu Asn Thr Phe Gln Lys Trp Phe
 1 5 10 15
 Asp Leu Leu Tyr Asn Ile Ile Tyr Met Leu Arg Lys Gln Asn Glu Phe
 20 25 30
 Ile Cys Ser Glu Cys Ile Asn Glu Lys Ile Gly Ser Arg Val Gly Trp
 35 40 45
 Val Ile Gly Gly Leu Asn Ile Tyr Gly Ile Val Gln Arg Ala Ala Asp
 50 55 60
 Ser Ala Asp Asn Leu Lys Asn Phe Cys Pro Ile Phe Tyr Asn Ala Leu
 65 70 75 80
 Tyr Arg Glu Gly Leu Glu Met Met Tyr Phe Leu Ile Glu Pro Met Ile
 85 90 95
 Met Lys Ser Cys Tyr Leu Asn Ile Ser Thr Ala Ser Asp Glu Glu Ile
 100 105 110
 Val Arg Ala Leu Lys Arg Met Met
 115 120

<210> 10758

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 10758

Phe Thr Pro Gln Ile Lys Thr Met Asn Ser Phe Met Asp Thr Phe Lys
 1 5 10 15
 Ser Glu Ile Asn Ile Thr Leu Leu Gly Lys Asp Met Phe Asp Asp Arg
 20 25 30
 Met Asn Ile Ala Arg Glu His Val Met Tyr Tyr Ser Glu Glu Ile Ile
 35 40 45
 Lys Gln Pro Gly Thr Asp Lys Glu Leu Ala Val Arg Leu Asp Lys Ala
 50 55 60
 Leu Ile Gly Val Lys Glu Gly Val Gln Tyr Tyr Val Asn Gly Leu Gly
 65 70 75 80
 Asp Ala Thr Thr Arg Leu Leu Tyr Tyr Thr Ser Cys Leu Thr Glu Asn

				85					90					95			
Tyr	Gln	Asp	Val	Cys	Lys	Lys	Leu	Gly	Ser	Glu	Asp	Val	Arg	Phe	Ile		
			100					105					110				
Cys	Ala	Leu	Tyr	Glu	Leu	Val	Lys	His	Arg	Asn	Val	Ile	Phe	Arg	Met		
		115					120					125					
Leu	Asn	Ile	Tyr	Ile	Glu	Thr	Leu	Leu	Lys	Asn	Lys	Ser	Asp	Val	Glu		
		130				135					140						
Lys	Lys	Thr	Ile	Leu	Glu	Asn	Leu	Thr	Pro	Phe	Ala	Lys	Asn	Tyr	Pro		
145					150					155					160		
Ile	Lys	Tyr	Ile	Ser	Lys	Met	Val										
				165													

<210> 10759

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10759

Pro	Ile	Ser	Pro	Gly	Glu	Cys	Asp	Leu	Ile	Cys	Lys	Trp	Gln	Ile	Ile		
1				5					10					15			
Ile	Ala	Asp	Ile	His	Leu	Asn	Ala	Phe	Ser	Pro	Ala	Ser	Ser	Leu	Leu		
		20					25						30				
Ile	Pro	Gln	Asn	Tyr	Lys	Lys	Phe	Phe	Gly	His	Leu	Lys	Ala	Asp			
		35				40					45						
Asn	Gly	Cys	Leu	Leu	Ser	Phe	Gly	His	Pro	Tyr	Cys						
	50					55					60						

<210> 10760

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 10760

Val	Glu	His	Arg	Thr	Asp	Gly	Lys	Gly	Phe	Gln	Gly	Met	Gly	Val	Val		
1				5					10					15			
Thr	Phe	Tyr	Leu	Ala	Asn	Leu	Val	Gly	Gln	Phe	Gly	Glu	Ala	Asn	Ser		
		20					25						30				
Ala	Arg	Glu	Arg	Gly	Glu	Leu	His	Gln	Val	Lys	Val	Leu	Ala	Asn	Asp		
		35				40						45					
Gly	Leu	Pro	Gly	Val	Ser	Glu	Ser	Leu	Trp	Gln	Lys	Asn	Val	Ala	Lys		
	50					55					60						
Gln	Thr	Pro															
65																	

<210> 10761

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10761

Val	Thr	Ser	Asn	Glu	Arg	Ala	Glu	Glu	Ser	Val	Pro	Glu	Cys	Gln	Pro		
1			5						10					15			
Asn	Glu	Gly	Glu	Glu	Lys	Leu	Tyr	Val	Val	Phe	Cys	Ile	Pro	Ser	Ala		
		20					25						30				
Glu	Thr	Ile	His	Gln	Gly	Phe	Gly	Ala	His	Tyr	Thr	Leu	Ile	Tyr	Ser		
		35				40						45					
Lys	Lys	Glu	Asn	Gly	Asn	Ser	Val	Ser	Lys	Thr	Ile	Cys	Ala	Asp	Ser		
	50					55				60							
His	Lys	Phe	Val	Ile	Lys	Ala	Leu	Arg	Pro	Asn	Val	Ile	Leu				
65					70					75							

<210> 10762
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 10762
 Ala Arg Arg Val Met Thr Met Lys Lys Trp Ile Ser Thr Leu Arg Arg
 1 5 10 15
 Phe Phe Ala Pro Arg Pro Val Asn Ala Glu Asn Ser Ala Gln Arg Val
 20 25 30
 Leu Glu Ser Ile Leu Pro Val Ala Ser Leu Tyr Gly Val Asp Val Ala
 35 40 45
 Asn Ile Asp Pro Glu Trp Phe His Asp Lys Thr Ser Arg
 50 55 60

<210> 10763
 <211> 440
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (440)

<400> 10763
 Trp Pro Phe Cys Tyr His Tyr Leu Leu Ser Gln Met Glu Met Ile Met
 1 5 10 15
 Lys Arg Thr Val Leu Thr Pro Ala Leu Ser Ala Thr Ala Leu Leu Leu
 20 25 30
 Thr Met Gln Ala Ala His Ala Gly Pro Gln Ala His Val Val Cys Ser
 35 40 45
 Tyr Ser His Thr Leu Gly Asp Asp Ala Ile Met Met Phe Ser Met Pro
 50 55 60
 Asn Glu Ala Met Leu His Asp Phe Phe Gly Asn Val His Thr Asp Ala
 65 70 75 80
 Tyr Ser Ser Arg Glu Ser Leu Arg Thr Gln Glu Lys Thr Thr Cys Asp
 85 90 95
 Asn Lys Ala Asp Ser Ser Ala Tyr Trp Ala Pro Ser Leu Lys Leu Pro
 100 105 110
 Asp Gly Thr Val Val Lys Pro Ala Tyr Gln Lys Thr Tyr Tyr Gln Ala
 115 120 125
 Ser Asn Val Asp Ala Trp Pro Leu His Pro Phe Gln Ala Gly Leu Ser
 130 135 140
 Leu Leu Ala Gly Asp His His Gly Thr Ala Pro Asn Pro His Ile Thr
 145 150 155 160
 Phe Leu Cys Ala Asn Gly Lys Gly Tyr Thr Thr Arg Thr Gly Glu Val
 165 170 175
 Cys Gly Leu Arg Lys Ala Lys Asp Ala Val Gln Phe Asn Ile Gly Ile
 180 185 190
 Gln Phe Pro Asn Cys Trp Asp Gly Val Asn Leu Lys Pro Ala His Gly
 195 200 205
 Leu Ala Asn Ala Thr Tyr Asp Thr Lys Gly Gln Cys Pro Ser Ala Phe
 210 215 220
 Pro Val Lys Ile Pro Thr Val Asn Met Asn Ile Ala Tyr Val Leu Pro
 225 230 235 240
 Thr Ile Ser Ser Leu Asp Thr Ser Lys Val Gln Leu Ser Leu Asp Pro
 245 250 255
 Ile Met His Gly Ser Glu Arg Glu Glu Arg Trp Gly Ser Leu Tyr Thr
 260 265 270
 Ala His Ala Asp Phe Met Asn Gly Trp Thr Glu Asp Ala Ala Arg Phe
 275 280 285

Met Thr Asp Leu Cys Met Asn Arg Gly Met Asp Cys Gly Thr Thr Val
 290 295 300
 Pro Tyr Gly Tyr Ser Lys Ala Lys Ala Asn Val Trp Leu Ser Ser Met
 305 310 315 320
 Glu Pro Ala Leu Ser Gln Pro Asp Pro Gln Val Leu Leu Val Gln Asp
 325 330 335
 Asn Trp Lys Asn Gly Gly Arg Thr Lys Asn Ser Glu Thr Leu Ser Leu
 340 345 350
 Val Lys Phe His Ile Pro Pro Leu Pro Ala Gly Gln Asp Pro Ala Gln
 355 360 365
 Phe Lys Tyr Arg Val Arg Ile Phe Gly Gly Lys Val Glu Thr Asn Gly
 370 375 380
 Ala Asp Gln Ile Phe Phe Tyr Pro Ala Ser Asn Asp Trp Asp Pro Ala
 385 390 395 400
 Thr Val Ser Trp His Ser Arg Pro Ser Cys Asn Tyr Arg Ser Asp Ala
 405 410 415
 Val Leu Tyr Leu Asn His Ser Arg Glu Tyr Arg Ser Ser Pro Gln Gly
 420 425 430
 Pro Lys Asp Pro Arg Ile Gly Xaa
 435 440

<210> 10764

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 10764

Thr Asp Ser Glu Ser Ala Asp Thr Ala Ser Leu Leu Ser Ile Gly Leu
 1 5 10 15
 Thr His Thr Tyr Leu Thr Asn Ser Gln Leu Ile Gly Pro Pro Ser Lys
 20 25 30
 Ala Gly Phe Phe Tyr Phe Arg Leu Lys Glu Thr Ser Ser Thr Arg Leu
 35 40 45
 Leu Val Lys Ser Ser Arg Gly Pro Asp Leu Ile Asn Gln His Gln Ala
 50 55 60
 Gly Ala Asn Met Lys Lys Thr Thr Met Gln Asp Arg Pro Asp Thr Trp
 65 70 75 80
 Ala Val Met Leu Ala Trp Leu Val Asn His Lys Asn Glu Ala Gly Tyr
 85 90 95
 Ser Val Leu Ala Phe Val Met Ser Ile Leu Ala Thr Ser Arg Gly Ala
 100 105 110
 Lys Ser Lys Trp Lys Asp Arg Ile Ala Gly Ala Thr Met Cys Gly Ile
 115 120 125
 Leu Cys Phe Phe Ala Gln Pro Thr Leu Thr Ala Ile Trp Ala Ile Phe
 130 135 140
 Asn Trp Asn Phe Pro Pro Glu Leu Cys Trp Pro Ile Ser Ala Gly Val
 145 150 155 160
 Gly Tyr Val Gly Val Asp Ser Leu Phe Ala Tyr Ala Arg Arg Arg Leu
 165 170 175
 Gly Leu Asn Glu Pro Gly Asp Lys Ala Asn Ala Asp Pro Gln
 180 185 190

<210> 10765

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 10765

Trp Arg Val Phe Phe Gln Glu Thr Ala Met Ser Ala Leu Tyr Glu
 1 5 10 15
 Lys Ser Gln Leu Thr Lys Ile Leu Ile Ser Ser Leu Pro Ala Thr Lys

```
<210> 10766
<211> 147
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10767
<211> 234
<212> PRT
<213> Enterobacter cloacae
```

<400> 10767															
Ser	Gln	Asp	Ser	Thr	Arg	Thr	Pro	Glu	Gln	Lys	Leu	Ser	Asn	Glu	Val
1			5						10				15		
Lys	Met	Thr	Glu	Ser	Lys	Tyr	Gly	Ser	Gly	Leu	Pro	His	Ala	His	Ala
			20					25					30		
Ala	Cys	Ile	Val	Asp	Gly	Cys	Glu	Leu	Ser	Val	Arg	Ser	Arg	Asn	Ser
		35					40					45			
His	Tyr	Cys	Glu	Lys	His	Tyr	Met	Arg	Val	Arg	Arg	His	Gly	Thr	Thr
	50					55					60				
Glu	Lys	Leu	Ser	Thr	Arg	Lys	Asp	Gly	Lys	Leu	Glu	His	Thr	Gly	Gly
65					70					75				80	

Tyr Leu Leu Val Tyr Ala Pro Asp His Pro Leu Ala Cys Gly Ser Pro
 85 90 95
 Arg Val Tyr Glu His Arg Lys Val Tyr Tyr Asp Lys His Gly Ala Gly
 100 105 110
 Pro Phe Arg Cys His Trp Cys Ala Lys Thr Val Gly Trp Asp Thr Leu
 115 120 125
 His Ile Asp His Leu Asp Asp Cys Lys Thr Asn Asn Glu Pro Asp Asn
 130 135 140
 Leu Val Pro Ser Cys Pro Val Cys Asn Gln Lys Arg Gly Val Asp Lys
 145 150 155 160
 Met Arg Lys Thr Met Arg Glu Asn Ser Asp Arg Arg Tyr Thr Ala His
 165 170 175
 Gly Lys Thr Met Cys Leu Asn Glu Trp Ala Asp Tyr Leu Gly Ile Ser
 180 185 190
 Arg Asn Ser Ile Glu Tyr Arg Leu Lys Ala Gly Trp Asp Ile Ser Met
 195 200 205
 Val Phe Ser Pro Arg Ile Gly Asn Ser Gly Pro Pro Ser Arg Lys Leu
 210 215 220
 Ala Lys Ile Val His Glu Ser Val Lys
 225 230

<210> 10768

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 10768

Ala Gly Asp Arg Lys Met Ile Glu Thr Ser Leu Asp Phe Ser Gly Leu
 1 5 10 15
 Asn Asp Ile Ala Lys Asp Leu Glu Ala Leu Ser Arg Ala Glu Asn Asn
 20 25 30
 Lys Val Leu Arg Asp Ala Thr Arg Ala Gly Ala Glu Val Leu Lys Asp
 35 40 45
 Glu Val Ile Ala Arg Ala Pro Val Arg Thr Gly Lys Leu Lys Lys Asn
 50 55 60
 Val Val Val Val Thr Gln Lys Ser Arg Arg Gly Glu Ile Ser Ser
 65 70 75 80
 Gly Val His Ile Arg Gly Val Asn Leu Arg Thr Gly Asn Ser Asp Asn
 85 90 95
 Thr Met Lys Ala Asn Asn Pro Arg Asn Ala Phe Tyr Trp Arg Phe Val
 100 105 110
 Glu Leu Gly Thr Ala Asn Met Pro Ala His Pro Phe Val Arg Pro Ala
 115 120 125
 Tyr Asp Thr Arg Glu Glu Glu Ala Ser Val Ala Ile Ala Arg Met
 130 135 140
 Asn Gln Ala Ile Asp Glu Val Leu Ser Lys
 145 150 155

<210> 10769

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 10769

Lys His Arg Val Trp Leu Leu Arg Gly Arg Met Lys Asn Ile Lys Asn
 1 5 10 15
 Leu Ala Leu Ala Lys Met Ser Gly Phe Arg His Lys Thr Val Ala Val
 20 25 30
 Pro Glu Trp Glu Gly Val Lys Val Val Leu Arg Glu Pro Ser Gly Glu
 35 40 45
 Ala Trp Leu Arg Trp Gln Glu Val Val Lys Ala Gly Ala Asp Asp Glu

50						55					60				
Asn	Val	Ser	Val	Ser	Glu	Lys	Ala	His	Arg	Asn	Leu	Cys	Ala	Asp	Val
65					70					75				80	
Cys	Ser	Ser	Leu	Thr	Phe	Asp	His	Gly	Gly	Trp	Ile	Asp	Pro	Arg	Ser
				85					90					95	

<210> 10770

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10770

Val	Glu	Lys	Gly	Asn	Cys	Arg	Glu	Val	Phe	Gln	Arg	Gly	Ile	Ala	Leu
1				5					10					15	
Phe	His	Gln	Cys	Pro	Glu	Asn	Pro	Phe	Thr	Phe	Gln	Leu	Asn	Glu	Phe
			20					25				30			
Ile	Tyr	Asp	Cys	Val	Leu	Leu	Ile	Arg	Asn	Asn	Asn	Asp	Lys	Gly	His
		35					40					45			
Leu	Arg	Val	Ala	Leu	Phe	Asn	Gly	Val	Asn	Gln	Arg	Glu	Gly	Ser	Gly
	50					55					60				
Thr	Asn	Gly	Ala	Thr	Glu	Ile	Ile	Ser	Val	Val	Thr				
65					70					75					

<210> 10771

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10771

Thr	Phe	Asn	Gly	Gly	Ile	Phe	Arg	Ala	Val	Thr	Asp	Asp	Asn	Arg	Met
1				5					10					15	
Ala	Lys	Val	Glu	Lys	Val	Met	Gly	Glu	Ala	Asp	Ala	Thr	Ala	Cys	Ala
			20					25					30		
Ser	Asp	Gln	Tyr	Trp	Ala	Leu	Leu	Arg	Val	Ser	His	Arg	Asn	Leu	Leu
		35					40					45			
Phe	Ser	Ser	Thr	Met	Gly	Gln	Ala	Thr	Leu	Ser	His				
	50					55					60				

<210> 10772

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 10772

Leu	Leu	Gln	Val	Asn	Leu	Met	Leu	Met	Ser	Cys	Ser	Ile	Met	Ala	Leu
1				5					10					15	
Tyr	His	Val	Phe	Thr	Ala	Ser	Leu	Ala	Arg	Phe	Ile	Gly	Pro	Glu	Gly
			20					25					30		
Glu	Phe	Lys	Val	Asn	Ile	Ser	Val	Ser	Asn	Pro	Asp	Arg	Leu	Phe	Phe
		35					40					45			
Thr	Asp	Lys	Val	Ile	Phe	Thr	Thr	Arg	Ser	Thr	Val	Asn	Glu	Arg	
	50					55					60				

<210> 10773

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10773

Gly	Ile	His	Ile	His	Ser	Ile	Gln	Lys	Val	Leu	Ile	Lys	Gly	Asn	Asp
1														15	
				5					10						

Thr Arg Arg Glu Lys Ile Gln Thr Glu Ala Gly Glu Arg Arg Val Thr
 20 25 30
 Gly Asn Pro Val Thr Gln Asn Asp Tyr Ser Arg Ser Pro Ile Ile Phe
 35 40 45
 Ser Ser Phe Ser Trp Ser Ile Ala Asn Leu Arg Ile Pro Ser Ala Ser
 50 55 60
 Leu Ser Thr Ala Ile Gly Ser Trp Leu Cys Cys His Arg Asn Ser Asp
 65 70 75 80
 Ser Val Met Arg Ser Gly Arg Ala Phe Thr Ser Pro Val
 85 90

<210> 10774

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10774

Pro Val Leu Tyr Leu Tyr Val Met Gln Ser Pro Phe Thr Asp Arg Arg
 1 5 10 15
 Asp His Glu Ser Gly Gly Leu Met Asn Glu Phe Lys Arg Cys Met Asn
 20 25 30
 Val Phe Thr His Ser Pro Phe Lys Val Arg Leu Met Leu Leu Asn Met
 35 40 45
 Leu Cys Asp Met Phe Asn Ala Lys Pro Gln Gln Asp Asp Asn Ser Ser
 50 55 60
 His
 65

<210> 10775

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 10775

Asn Leu Gln Asp Ala Leu Met Lys Arg Ile Phe Leu Ser Val Ala Met
 1 5 10 15
 Leu Leu Val Gly Cys Ser Ser Ala Ala Ser Gln Glu Gln Ser Ala Lys
 20 25 30
 Asp Thr Thr Val Ser Phe Tyr Lys Ser Tyr Leu Cys Ala Phe Gly Ser
 35 40 45
 Asn Glu Ala Arg Pro Tyr Pro Ala Asp Glu Leu Arg Lys Tyr Val Ser
 50 55 60
 Ala Asp Thr Ile Ala Arg Ile Gly Ala Ile Gln Glu Ile Pro Glu Gln
 65 70 75 80
 Glu Leu Ile Glu Ser Asp Tyr Phe Thr Tyr Thr Gln Asp Tyr Ala Arg
 85 90 95
 Glu Trp Ile Pro Ala Leu Arg Val Glu Asn Ala Arg Pro Phe Leu Asn
 100 105 110
 Gly Glu Val Val Gln Val Met Glu Gly Ala Gly Gly Gly Arg Ser Ile
 115 120 125
 His Leu Glu Val Phe Leu Arg Arg Glu Asp Asp Ala Trp Lys Ile Tyr
 130 135 140
 Arg Val Arg Asp Leu Thr Asn Asn His Glu His Pro Ile Phe Asn Ala
 145 150 155 160
 Gly Ala Ile Ala Gln Ala Lys Ile Ala Ala Glu Ser Gly Leu
 165 170 175

<210> 10776

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 10776

Ala Leu Phe Asn Gln His Gln Val Asn Asp Trp His Asn Asn Ser Val
 1 5 10 15
 Leu Thr Tyr Leu Arg Glu Leu Arg Met Ser Trp Asn Lys Asp Val Ala
 20 25 30
 Val Ser Tyr Leu Arg Ser His Ala Leu Gly His Ser His Ser Glu Cys
 35 40 45
 Ala Lys Phe Thr Arg Leu Ala Ile Leu Ala Gly Gly Val Lys Val Pro
 50 55 60
 Asn Thr Asp Tyr Ala Lys Asp Tyr Gly Ala Glu Leu Leu Arg Ala Gly
 65 70 75 80
 Phe Arg Glu Leu Pro Gly Ser Thr Leu Ile Ala Gly Asp Val Ala
 85 90 95
 Val Ile Gln Pro Tyr Pro Gly Gly Asn Gly Ile Gly His Met Thr Met
 100 105 110
 Tyr Asp Gly Thr Gln Trp Ile Ser Asp Phe Val Gln Lys Ser Met Tyr
 115 120 125
 Pro Gly Pro Gly Tyr Arg Lys Met Gln Pro Ser Phe Lys Ile Tyr Arg
 130 135 140
 Met His
 145

<210> 10777

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10777

Lys Arg Gly Arg Ala Thr Gly Trp Tyr Tyr Ala Thr His Pro Ala Leu
 1 5 10 15
 Lys Thr Gly Trp Met Arg Phe Ala Pro Val Cys Ser Val Glu Ala Asp
 20 25 30
 Val Val Phe His His Pro Phe Glu Glu Ala His Thr Gly Thr His Glu
 35 40 45
 Ala Val Phe Lys Pro Lys Thr Cys Met Phe Ile His Thr Asn Thr
 50 55 60

<210> 10778

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10778

Gly Leu Lys Phe Ser Gly Asp Pro Ser Glu Gln Tyr Thr Ser Val Phe
 1 5 10 15
 Ala Ala Thr Val Glu Leu Thr Val Ser Ala Ala Ser Ala Ser Val Ile
 20 25 30
 Ile Val Asn Val Leu Phe Ile Ile Tyr Ser Cys Leu Phe Asn Ser Thr
 35 40 45
 Ala Asn Tyr Phe Phe Cys His Phe Ile Asn Asn Ile Lys Val Met Ala
 50 55 60
 Gln Thr His Glu Lys
 65 70

<210> 10779

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 10779

Gly Cys Ser His Tyr Val Cys Leu Cys Leu Arg Leu Phe Tyr Gly Ala
 1 5 10 15
 Lys Leu Asp Leu His Lys Met Cys Gln Lys Ser Ser Ile Phe Thr Arg
 20 25 30
 Gln Asn Ser Asn Ile Ala Ser Lys Glu Gly Phe Met Glu Trp Lys Val
 35 40 45
 Val Glu Thr Ile Ala Ser Pro Glu Ser Gly Thr Ile Phe Cys Lys Val
 50 55 60
 Glu Thr Gln Tyr Gly Leu Asn Tyr Ile Leu Trp Leu Lys Gly Asp Tyr
 65 70 75 80
 Tyr Val Arg Thr Gly Glu Ile Ile Thr Thr Ser Asn Gln Gly Ile Leu
 85 90 95
 Ile Asn Asp Arg Arg Arg Arg Val Trp Ile Ala Gln Ala Met Pro Phe
 100 105 110
 Thr Ser Ile Gly Trp Met Gly Phe Lys Gln Lys Asn Ala Cys Pro Gly
 115 120 125
 Asn Arg Gln Glu Met Asp Arg Pro Cys Thr Ala Glu Thr Pro Cys Gln
 130 135 140
 Phe Lys Leu Cys Pro Phe Gly Leu Lys Arg Tyr Ile Pro Glu Ser Tyr
 145 150 155 160
 Ser Thr Thr Lys Ile Asn Asn His Pro Asp Gly Arg Leu
 165 170

<210> 10780

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10780

Ile Val Glu Gln Ile Thr Gln Val Phe Ser Thr Thr Leu Leu Thr Leu
 1 5 10 15
 Leu Pro Val Phe Leu Ala His Phe Leu Val Gly Phe Phe Phe Cys Leu
 20 25 30
 Asn Pro Pro Lys Ser Gly Val Phe Ser Val Glu Val Lys Arg Tyr Ser
 35 40 45
 Leu Leu Leu Leu Asn Asn Gln Lys Ala Leu Ile Thr
 50 55 60

<210> 10781

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 10781

Arg Gly Gly Phe Leu Met Ala Asn Ser Phe Lys Gln Met Thr Arg Asp
 1 5 10 15
 Gly Thr Ile Lys Arg Thr Asp Thr Gly Met Phe Ile Ser Leu Asp Gln
 20 25 30
 Ile His Val Arg Glu Gly Phe Asn Lys Arg Glu Asp Asp Glu Arg Thr
 35 40 45
 Arg Gln Ala Asp Asp Asp Leu Phe Asn Tyr Leu Met Asn Gly Gly Ser
 50 55 60
 Val Pro Pro Leu Glu Val Ile Ala Arg Asp Glu Gly Gly Val Trp Val
 65 70 75 80
 Val Glu Gly His Arg Arg Arg Arg Cys Tyr Ala Arg Cys Ala Glu Ala
 85 90 95
 Gly Lys Pro Val Asp Arg Ile His Ile Met Pro Phe Asn Gly Asn Asp
 100 105 110
 Val Gln Arg Leu Ala Arg Ile Met Thr Ser Asn Asn Gln Leu Pro Leu
 115 120 125
 Ser Asp Met Glu Gln Ala Ala Val Ile Gln Glu Leu His Asn Ala Phe

```
<210> 10782
<211> 94
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10783
<211> 154
<212> PRT
<213> Enterobacter cloacae
```

400> 10783															
Tyr	Leu	Met	Asn	Ile	Tyr	Glu	Phe	Gly	Ser	Ile	Gln	Val	Pro	Gly	Phe
1			5						10					15	
Val	Gln	Pro	Lys	Phe	Ser	Ala	Val	Gln	Ser	Ala	His	Asn	Thr	Glu	Lys
			20					25					30		
Leu	Ser	Met	Thr	Asn	Thr	Gln	Asn	Val	Thr	Glu	Leu	Gln	Pro	Arg	Met
		35					40					45			
Thr	Arg	Glu	Gln	Leu	Ile	Asp	Ala	Ala	Arg	Lys	Ala	Ala	Pro	Leu	Leu
	50					55					60				
Pro	Pro	Ala	Tyr	Arg	Gly	Ile	Met	Thr	Glu	Leu	Ala	Asn	Arg	Leu	Asp
65					70					75				80	
Tyr	Thr	Ser	Val	Ala	Leu	Cys	Glu	Ala	Met	Ala	Gln	Arg	Lys	Glu	Leu
			85					90					95		
Ala	Val	Gln	Asn	Ala	Thr	Leu	Arg	Glu	Asp	Val	Ala	Ser	Trp	Ala	Lys
			100					105					110		
Glu	Cys	Asp	Arg	Ile	Val	Glu	Arg	His	Thr	Lys	Ser	Arg	Thr	Asn	Met
		115					120					125			

His Leu Leu Glu Ala Gln Arg Glu Leu Arg Glu Leu Ser Pro Ile Val
 130 135 140
 Ile Ser Gln Asn Asn Glu Val Ala Phe
 145 150

<210> 10784

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10784

Pro Val Ser Gly Ser Thr Phe Ala Arg Arg Ser Met Phe Gln Leu Lys
 1 5 10 15
 Pro Gly Ser Met Ala Met Ile Val Gly Ala Arg Thr Ala Ala Gly Arg
 20 25 30
 Arg Asn Ile Gly Lys Ser Val Glu Leu Phe Gly Leu Cys Gln Pro Gly
 35 40 45
 Gln Arg Phe Val Asn Pro Val Asn Gly Val Met Thr Gln Leu Pro Asp
 50 55 60
 Thr Ser Ala Arg Ala Leu Trp Leu Val Thr Gly Asp Val Tyr Ala Phe
 65 70 75 80
 Asp Asn Gln His Gly Phe Ala Phe Val Arg Pro Glu His Leu Met Pro
 85 90 95
 Leu Thr Pro Asp Glu Met Pro His Asn Val Asp Glu Leu Ala Ile Gly
 100 105 110

<210> 10785

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10785

Val Phe Ser Pro Tyr Ala Ile Pro Gly His Gly Tyr Glu Leu Ala Asp
 1 5 10 15
 Ser Glu His His Arg Arg Asp Asn Tyr Asn Phe Asp Trp Arg His Tyr
 20 25 30
 Ser Ser Ser Ser Arg Pro Arg Tyr Glu Arg Glu Leu Ile Ala Phe Gly
 35 40 45
 Leu Lys Ser Ser Pro Glu Ile Asn Ser Phe Asn Leu Ser Lys Ser Ala
 50 55 60
 Cys Asp Phe Met Arg Lys Val Ser
 65 70

<210> 10786

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 10786

Ile Leu Leu Lys Ala Asp Glu Gly Glu Ala Lys Lys Ser Pro Asp Val
 1 5 10 15
 Glu Ile Gly Ala Lys His Leu Asp Tyr Gly Met Met Phe Ser Gly Gln
 20 25 30
 Cys Glu Asn Arg Tyr His Tyr Lys Arg Glu Ser Cys Arg Phe Asn Gly
 35 40 45
 Glu Ile Met Glu Lys Thr Ala Met Thr Arg Tyr Ser Asp Val Phe Thr
 50 55 60
 Pro
 65

<210> 10787

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10787

```

Asn Asn Tyr Trp His Arg His Ala Asp Asp Gln Pro Ala Glu Phe Gly
1      5      10      15
Tyr Phe Val Gly Leu Leu His Asp Ser Gly Val Gln Val Arg Gly Phe
20      25      30
Thr Phe Pro Pro Gly Asn Val Gly Phe Lys Ala Ala Gln Ala Pro Leu
35      40      45
Phe Lys Phe Ser His His Met Pro Tyr Pro Val Met Asp Met Ser Trp
50      55      60
Gln Ile Ala Asn Ile Thr Ala Val Ile Thr Thr Thr Leu Thr Gly Gly
65      70      75      80
Ile Ile Arg Pro Pro Leu Asp Gln Gly Met Lys Glu Ser
85      90

```

<210> 10788

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10788

```

Trp Val Val Val Pro Val Thr Ser Ser Asp Ile Thr Ile Ser Pro Val
1      5      10      15
Ile Cys Gln Tyr Val Ala Cys Tyr Ile Ser Thr Gly Arg Arg Gly Leu
20      25      30
Lys Glu Asn Ser Gln Arg Glu Arg Trp Leu Leu Gly His Ala Leu Leu
35      40      45
Val Asp Asp Cys Phe Trp Ser Asn Ser Leu Lys Phe Asn
50      55      60

```

<210> 10789

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10789

```

Pro Ser Ser Ser Arg Leu Arg Arg Arg Ser Ala Ala Ile Ser Trp Ser
1      5      10      15
Ser Ser Thr Ser Arg Ile Cys Phe Met Gly Lys Pro Ser Ile Ile Cys
20      25      30
Tyr Val Val Ser Leu Pro Asp Phe Glu Arg Gly Lys Ser Ser His Phe
35      40      45
Val Glu His Cys Val Gly Phe Met Pro Gly Gly Gly Phe Ala Leu Pro
50      55      60
Gly Leu Arg Phe Gly
65      70

```

<210> 10790

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 10790

```

Ala Cys Ile Met Ser Ser Lys Asn Gln Ser Gln Tyr Phe Ser Ile Ala
1      5      10      15
Val Tyr Ile Pro Glu Glu Leu Lys Gln Thr Phe Val Glu Glu Cys Ser

```

```
<210> 10791
<211> 105
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10792
<211> 229
<212> PRT
<213> Enterobacter cloacae
```

<400> 10792															
Thr	Leu	Gln	Lys	Glu	Ser	Ser	Met	Asn	Gln	Phe	Thr	Glu	Asp	Leu	His
1			5						10					15	
Asn	Val	Val	Ala	Gln	Ile	Leu	Ala	Gly	Ala	Glu	Ile	Ser	Asp	Ser	Glu
			20					25					30		
Ile	Phe	Lys	Glu	Leu	Thr	Ile	Glu	Pro	Asp	Phe	Tyr	Lys	Val	Gln	Asp
		35					40					45			
Gln	Tyr	Tyr	Gly	Gly	Asn	Gly	Ile	Tyr	Phe	Asn	Ser	Glu	Ser	Glu	Thr
		50				55					60				
Arg	Phe	Ser	Leu	Arg	Ser	Lys	Ser	Lys	Gly	Val	Leu	Tyr	Leu	Ala	Thr
65					70					75					80
Thr	Ala	Phe	Thr	Gly	Leu	Lys	Glu	Phe	Tyr	Gln	Asp	Ala	Pro	Leu	Val
				85					90					95	
Glu	Thr	Glu	Asp	Leu	Glu	Lys	Asn	Cys	Met	Ala	Val	Ile	Gln	Ala	Ala
			100					105					110		
Arg	Thr	Ile	Lys	Ile	Ile	Asp	Leu	Ala	Ala	Leu	Ala	Pro	His	Leu	Lys
		115					120					125			
Thr	Pro	Leu	Gly	Tyr	Leu	Met	Gly	Ser	Lys	Ala	Val	Tyr	Glu	Asp	Thr
	130					135					140				

Gln Trp Leu Ala Glu Val Leu Ser His Tyr Ala Asp Gly Ile Glu Tyr
 145 150 155 160
 Leu Ser Arg His Thr Gly Lys Thr Cys Ile Ala Leu Trp Ser Asp Thr
 165 170 175
 Val Asp Gly Asn Gly Met Leu Lys Asn Ile Ser Val Thr Pro Leu Ile
 180 185 190
 Gln Phe Ser Leu Asn Gly Gln Ser Thr Gln Ala Ile Leu Lys Ser Lys
 195 200 205
 Leu Gly Ile Leu Thr Val Phe Thr Thr Gly Gly Arg Ala Asn Arg Ala
 210 215 220
 Lys Gln Gly Gly Glu
 225

<210> 10793

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10793

Thr Pro Ile Glu Ala Ile Lys Gly Thr Glu Ile Tyr Pro Gly Gly Leu
 1 5 10 15
 Tyr Ala Leu Val Phe Arg Ala Gln Gly Phe Tyr Met Asp Asp Phe Pro
 20 25 30
 Ser Leu Ser Gly Arg Asn Ser Ala Pro Gly Phe Met Pro Val Asn Arg
 35 40 45
 Asp Leu Val Ser Arg Cys Ser Tyr Phe Pro Ser Phe Glu
 50 55 60

<210> 10794

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10794

Gly Pro Lys Met Lys Arg Thr Leu Cys Thr Val Leu Thr Ala Leu Thr
 1 5 10 15
 Leu Ala Thr Ala Leu Pro Ala Ile Gly Ala Thr Thr Glu Ala Gly Ser
 20 25 30
 Thr Ser Ala Ala Thr Thr Gly Thr Thr Thr Gly Ala Thr Val Gly Thr
 35 40 45
 Thr Ala Gly Thr Thr Gly Gly Leu Ala Ala Gly Ala Ile Gly Thr Thr
 50 55 60
 Ala Val Val Thr Thr Ala Ala Ile Ala Gly Val Ala Thr Leu Ala Val
 65 70 75 80
 Val Ala Ala Ser Asp Ser Gly Asp Asp Ser Ser Asn Gly Thr Ser Thr
 85 90 95
 Thr Thr Val Thr Arg
 100

<210> 10795

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10795

Cys Ser Ala Lys Lys Ile Ala Pro His Phe Ser Leu Leu Pro Gly Gln
 1 5 10 15
 Thr Glu Thr Ser Ile Leu Ala Ser Ile Ser Arg His Asp Gly Glu Arg
 20 25 30
 Met Gln Asn Tyr Tyr Gly Ser Leu Thr Phe Ile Ser Arg Lys Asn Phe
 35 40 45

Pro Pro Gln Gln Cys Ala Gly Lys Arg Pro Leu Arg Ala
 50 55 60

<210> 10796

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 10796

Trp Asn Leu Cys Lys Ala Cys Glu Gly Ser Ala Asp Phe Ala Ile Pro
 1 5 10 15
 Arg Ala Ile Lys Thr Val Gly Arg Gly His Gly Cys Arg Leu Tyr Arg
 20 25 30
 Ser Leu Arg Arg Cys Leu Ala Ile Ala Asp Leu Gly Gly Arg His Asn
 35 40 45
 Val Ala Pro Leu Tyr Ile Met Ser Tyr His Ser Phe Leu Phe Lys Lys
 50 55 60
 Ala Ala Ile Ala Glu Trp Phe Asp Phe Ala Ile Val Lys Ser Ala Phe
 65 70 75 80
 Pro His Ala Ser
 85

<210> 10797

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 10797

Lys Ala Lys Phe Lys Ala Asp Lys Ala Ser Asn Ser Asn Lys Glu Glu
 1 5 10 15
 Arg Glu Thr Phe Phe Arg Phe Phe Tyr Ser Pro Ala Leu Lys Ala Ala
 20 25 30
 Ser Asp Phe Leu Asn Thr Val Leu His Lys Glu Asn Arg Met Thr Val
 35 40 45
 Phe Leu Ile Leu Thr Ala Ile Ala Tyr Gly Ile Phe Lys Ala Gly Cys
 50 55 60
 Phe Ile Leu Leu Val Val Lys Gly Tyr Gln Gly Trp Thr Leu Phe Trp
 65 70 75 80
 Lys Asn Tyr Asp Arg Leu Pro His Ile Ile Arg Ser Arg Cys Arg Tyr
 85 90 95
 Gln Arg Arg Phe Ile Phe Arg Arg Ile Trp Lys Arg Ile Phe Ser His
 100 105 110

<210> 10798

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 10798

Leu Phe Leu Asp Ile Ile Asn Leu Val Met Asp Arg Gln Ile Gln Arg
 1 5 10 15
 Glu His Ile Glu Gln Gln Ile Asp Met Ser Leu Gly Asp Gly Ile Lys
 20 25 30
 Ala Ala Phe Arg Arg Ser Ile Met Thr Thr Ser Asn Ala His Phe Cys
 35 40 45
 Arg Lys Thr Gly Ser Leu Met Phe Gln His Arg Ile Lys Ile Tyr Thr
 50 55 60
 Thr Ser Phe His Leu Thr Lys Tyr Ile His Gly Arg Arg Phe Glu Thr
 65 70 75 80

Arg Ile Ile Leu Val Tyr Lys Leu Leu Ile Gly Tyr Ala Gly Ile Phe
 85 90 95
 Lys Ser Leu Ile Pro Asp Gly Val Gln Tyr Leu
 100 105

<210> 10799

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 10799

Val Ser Phe Arg Val Phe Asn His Asn Pro Ser Ser Thr Ala Arg Lys
 1 5 10 15
 Leu Ala Arg Pro Met Val Ile Ala Gly Lys Ile Met Trp Lys Glu Thr
 20 25 30
 Val Asn Ala Asn Cys Thr Leu Ala Lys Trp Lys Ala Ser Asn Pro Asn
 35 40 45
 Ile Val His Leu Asn Pro Asp Asn Thr Leu Ile Ile Asn Tyr Phe Leu
 50 55 60
 Ser Asn Gln Ser Leu Asp Glu Lys Phe Arg Leu Leu Lys Thr Ile Ile
 65 70 75 80
 Phe Leu Tyr Glu Ile Lys Thr His Leu Gln Val His Cys
 85 90

<210> 10800

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 10800

Ala Met Thr Gln Ala Arg Arg Pro Ser Pro Leu Gln Arg Arg Val Leu
 1 5 10 15
 Ile Val Leu Ala Ala Leu Asp Ser Lys Arg Pro Gly Pro Val Ala Thr
 20 25 30
 Arg Asp Ile Glu Arg Val Leu Glu Gln Gly Gly Asp Ala Pro Val Tyr
 35 40 45
 Gly Pro Asn Leu Arg Ala Ser Cys Arg Arg Met Glu Ala Ala Gly Trp
 50 55 60
 Leu Arg Thr Leu Arg Ala Pro Asn Gln Gln Leu Ala Val Glu Leu Thr
 65 70 75 80
 Gly Ala Gly Arg Asp Val Ala Glu Pro Leu Tyr Gln Ala Ala Arg Asp
 85 90 95
 Asp Glu Ile Ser Arg Gln Arg Gln Leu Lys Val His Ser Leu Pro Leu
 100 105 110
 Arg Glu Ser Thr Thr Gly Glu Ala Val Glu Val Phe Leu Gly Asp Ser
 115 120 125
 Leu His Arg Ile Cys Gln Ala Ala Tyr Val Ile Arg Leu Asp Gly Ser
 130 135 140
 Thr Cys Leu Gln Val Thr Asn Ala Gly Gly Ile Arg Gln Ile Met Glu
 145 150 155 160
 Gly Asp Pro Leu Gln Val Ala Asp Leu Tyr Gln Thr Cys Tyr Asp Ala
 165 170 175
 Gly Leu Pro Val His Ile Gln Ile Asn Glu Ser Gln Asp
 180 185 190

<210> 10801

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10801

Cys Ala Cys Lys Gly Asp Phe Ile Pro Asp Leu Gly Leu Leu Thr Asn
 1 5 10 15
 Asn His Lys Leu Phe Arg Arg Gln Thr Val Asn Lys Asn Pro Ile Leu
 20 25 30
 Tyr Thr Gly Asp Gly Gly Val Leu Lys Thr Phe Pro His Gly Arg Gly
 35 40 45
 Gln Met Lys Gly Asp Ala Cys Val Ile Val Leu Arg Thr Arg Asp Gly
 50 55 60
 Glu Ile Phe His Gln Tyr Phe Ala Ile Ala Val Leu Val Gly Pro Leu
 65 70 75 80
 Leu Pro Leu Tyr Phe Gly Gln Arg Val Met Ser Gly Gly Leu Arg Asp
 85 90 95
 Val Ser Tyr Leu Phe
 100

<210> 10802

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10802

Leu Asn Arg Thr Leu Ser Asp Gly Ala Cys Arg Met Asp Glu Lys Glu
 1 5 10 15
 Val Asn Phe Ser Leu Ser Tyr Glu Gln Leu Thr Arg Ile Ala Glu Glu
 20 25 30
 Arg Ile Arg Glu Cys Glu Leu Asp Ser Gln Gly Ala Lys Tyr Ile Ser
 35 40 45
 Glu Ser Ser Met Ala Ser Thr Leu Leu Gln Phe Trp Tyr Glu Leu Ala
 50 55 60
 Ile Thr Gly Ala Pro Met Lys Asn Tyr Glu Gln Thr Lys Ala Leu Ile
 65 70 75 80
 Asp Val Asp His Gln Arg Leu Arg Lys Leu Ile Trp Pro Glu Thr Asp
 85 90 95
 Lys Gln

<210> 10803

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 10803

Val Pro Met Lys Lys Thr Lys Tyr Arg Phe Glu Ser Asp Asp Asp Pro
 1 5 10 15
 Phe Val Ser Lys Asp Val Leu Thr Leu Ile Asp Asn Gly Leu Val Phe
 20 25 30
 Leu Asp Lys Ala Arg Glu Glu Leu Gln Asp Ser Met Pro Lys Phe Ser
 35 40 45
 Ile Val Ser Phe Trp Thr Ala Val Glu Ile Leu Leu Lys Val Pro Leu
 50 55 60
 Leu His Glu His Trp Ser Leu Val Cys Ser Gly Arg Lys Ile Glu Arg
 65 70 75 80
 Ala Arg Tyr Leu Ala Gly Asp Phe Gln Ser Val Thr Tyr Asp Glu Thr
 85 90 95
 Cys Gln Arg Leu Ala Asp Val Leu Glu His Pro Leu Pro Lys Glu Thr
 100 105 110
 Ile Asp Val Phe Lys Lys Val Lys Asp His Arg Asn Arg Val Val His
 115 120 125
 Phe Tyr His Ser Asp Trp His Cys Cys Lys
 130 135

<210> 10804
 <211> 194
 <212> PRT
 <213> Enterobacter cloacae

<400> 10804

```

Asn Val Arg Pro Leu Asn Lys Thr Lys Gly Cys Leu Ile Ala Asn Phe
1      5      10      15
Ala Thr Val Pro Asp Ile Asp Pro Lys Gln Thr Pro Asp Asp Ala Ala
20      25      30
Tyr Ala Trp Ser Asn Ile Val Asp Asp Ala Arg Ser Asn Gln Ala Val
35      40      45
Pro Ala Leu Ser Leu Tyr Ser Gly Asn His Trp Ser Thr Ala Lys Glu
50      55      60
Ile Leu Asn Ser Thr Arg Asn Leu Glu Leu Trp Ile Ile Ser Ala Gly
65      70      75      80
Met Gly Phe Leu Asn Cys Arg Asp Arg Val Pro Ser Tyr Glu Ala Thr
85      90      95
Phe His Gln Val Pro Phe Arg His Asp Leu Trp Trp Lys Ala Ile Thr
100     105
Lys Ser Leu Gly Lys His Asn Arg Cys Ala Thr Ile Ser Gln Leu Met
115     120     125
Gln Ser Ser Pro Asn Asp Glu Tyr Leu Ile Ala Ala Ser Pro Val Tyr
130     135     140
Ile Ala Ala Val Gln Asn Asp Ile Leu Lys Gly Ile Glu Ser Leu Thr
145     150     155     160
His Pro Leu Thr Gln Leu Thr Ile Val Thr Ser Gly Ala Tyr Ala Gly
165     170     175
Pro Leu Glu Glu Tyr Leu Ile Lys Ser Ser Ser Val Met Thr Pro Thr
180     185     190
Tyr

```

<210> 10805
 <211> 71
 <212> PRT
 <213> Enterobacter cloacae

<400> 10805

```

Val Asn Ala Ala Met Leu Ser Leu Thr Asn Lys Glu Asp Asn His Met
1      5      10      15
Asn Ile Lys Thr Leu Lys Asn Asp Thr Val Glu Thr Val Ser Phe Leu
20      25      30
Val Lys Ala Leu Phe Phe Val Val Arg Lys Ile Tyr Leu Lys Pro Ala
35      40      45
Val Ala Val Cys Pro Leu Pro Gln Thr Leu Ala Glu Cys Arg Ile Tyr
50      55      60
Ala Ala Arg Ser Ile Cys
65      70

```

<210> 10806
 <211> 356
 <212> PRT
 <213> Enterobacter cloacae

<400> 10806

```

Tyr Ser Lys Pro Thr Gln Arg Glu Arg Gly Met Ser Gln Gln Leu Arg
1      5      10      15
Lys Arg Ser Asp Ile Glu Lys Lys Val Ala Ala Gly Glu Ala Val Lys
20      25      30
Glu Gln Pro Arg Gln Leu Ile Arg Asp Thr Ile Thr Gly Lys Ile Ile

```

35 40 45
 Ser Asn Glu Arg Val Pro Glu Thr Leu Pro Ala Cys Leu Ile Ala Met
 50 55 60
 Gln Ser Asn Thr Leu Val Tyr Asn Asp Val Asp Val Glu Ala Phe Gln
 65 70 75 80
 Arg Glu Val Arg Gln Val Ser Gln Ile Leu Asp Ala Ile Arg Asp
 85 90 95
 Glu Arg Phe Glu Asn Ala Gly Ile Ala Tyr Gln Gln Phe Ile Asp Gln
 100 105 110
 Tyr Asp Ala Cys Phe Glu Thr Pro Ser Val Asp Val Leu Gly Glu Val
 115 120 125
 Lys Arg Arg Gly Ile Asp Leu Tyr Ala Val Leu Glu His Gln Gly Thr
 130 135 140
 Arg Leu Thr Ala Glu Met Cys Val Gly Gly Ser His Asp Arg Ala Ser
 145 150 155 160
 Glu Arg Ser Phe Asn Ala Val Thr Glu Ala His Ile Asn Leu Leu Phe
 165 170 175
 Tyr Met Leu Thr Leu Asn Leu Ala Ile His Asn Lys Ile Asp Asn Val
 180 185 190
 Gln Lys Gln Leu Arg Thr Lys Leu Gly Phe Leu Glu Glu Arg Leu Arg
 195 200 205
 Thr Leu Leu Asn Glu Tyr Ile Tyr Ala Asn Gln Leu Gly Arg Ile Val
 210 215 220
 Leu Asp Gly Leu His Ala Ser Glu Thr Leu Tyr Gly Trp Ile Leu Leu
 225 230 235 240
 Glu Lys Asn Asp Leu Asp Ala Ala Arg Leu Ile Tyr Lys Asn Asp Leu
 245 250 255
 Lys Leu Asn Asn Glu Met Lys Phe Ala Glu Leu His Ala Glu Val Met
 260 265 270
 Ser Ile Tyr Gln Lys Arg Tyr Thr Ser Glu Thr Pro Glu Asp Leu Arg
 275 280 285
 Asn Arg Ala Phe Ser Arg Cys Gly Leu Ser Glu Asp Arg Ala Gln Phe
 290 295 300
 Ala Phe Lys Leu Cys Tyr Tyr Leu His Gln Thr Gly Gln Ile Arg Lys
 305 310 315 320
 Tyr Ile Asp Glu Leu Thr Leu Gly Ala Asp Asn Asn Asp Thr Ser Asp
 325 330 335
 Ala Thr Val Asp Val Arg Ser Leu Leu Val Pro Ser Ala Ser Gly Leu
 340 345 350
 Ala Thr Gln
 355

<210> 10807

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10807

Asn Asn Cys Leu Val Arg Lys Thr Pro Gln Gly Ser Gly Tyr Ser Gly
 1 5 10 15
 Ile Thr Ser Met Gly Ser Phe Ala Cys Arg Ala Trp Asn Ser Ser Met
 20 25 30
 Gln Leu Ile Leu Asn Thr Ser Arg Gly Leu Ser Thr Val Val Ser Ser
 35 40 45
 Leu Ser Ile Ile Tyr Ser Phe Val Cys Asp Ile Tyr Phe
 50 55 60

<210> 10808

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 10808

His Thr Met Lys Arg Thr Ile Phe Phe Ala Leu Ser Thr Phe Leu Leu
 1 5 10 15
 Ala Met Thr Ala Ser Ser Val Tyr Ala Ser Thr Glu His Thr Gly Met
 20 25 30
 Ser Asp Leu Arg Val Gln Lys Thr Ala Asn Ala Ser Tyr Cys Asn Pro
 35 40 45
 Gly Ser His Arg Cys Glu Ala Pro Phe Thr Ile Gly Arg Asp Asn Ile
 50 55 60
 Ala Lys Pro Asp Gly Ser Asp Lys Asn Tyr Cys Asn Pro Gly Ser His
 65 70 75 80
 Arg Cys Glu Ala Pro Phe Ser Thr Gly Arg Asp Asn Ile Ala Lys Pro
 85 90 95
 Asp Gly Thr Asp Lys Asn Tyr Cys Asn Pro Asn Ser Arg Lys Cys Asn
 100 105 110
 Ala Pro Phe Thr Thr Gly His Asp Asn Ile Asn Gln
 115 120 125

<210> 10809

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10809

Ala Arg Gln Gly Cys Ser Met Asn Thr Lys Leu Gln Ala Ser Leu Val
 1 5 10 15
 Lys Val Pro Gln Ile Thr Leu Thr Phe Trp Ile Val Lys Ile Ala Val
 20 25 30
 Thr Thr Leu Gly Glu Thr Gly Gly Asp Ala Val Ser Met Ser Met Gly
 35 40 45
 Ile Gly Tyr Ala Gly Arg Val Met Thr Pro Thr Tyr
 50 55 60

<210> 10810

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10810

Ser Pro Lys Phe Phe Ser Lys Leu His Ile Thr Pro Pro Thr Ile Lys
 1 5 10 15
 Asn Tyr Ser Gln His Tyr Leu Tyr Arg Ala Val Ser Gly Met Ile Val
 20 25 30
 Val Ala Asp Thr Ile Thr Lys Ile Leu His Phe Cys Asn Arg Pro His
 35 40 45
 Leu Ser Leu His Tyr Cys Asn Leu Leu Asp Thr Phe Asn His Val Leu
 50 55 60
 Asn Asn Val Leu Ala Ser Glu Phe Leu Ser His Thr Lys Lys
 65 70 75

<210> 10811

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 10811

Ser Ala Val Glu Ala Asp Ser Pro Asp Glu Tyr Gly Asn Ser His Pro
 1 5 10 15
 Arg Gln Glu Thr Met Arg Pro Gln Gln Asn Thr Ser Pro Ala Phe Pro
 20 25 30

0123456789
 10111213141516171819
 20212223242526272829
 30313233343536373839
 40414243444546474849
 50515253545556575859
 60616263646566676869
 70717273747576777879
 80818283848586878889
 90919293949596979899

Met Asn Lys Val Pro Glu Val Thr Leu Phe Phe Trp Leu Ile Lys Met
 35 40 45
 Met Ser Thr Thr Val Gly Glu Thr Ala Ala Asp Phe Leu Asn Met Asp
 50 55 60
 Leu Asn Trp Gly Leu Thr Asn Thr Ser Leu Leu Thr Gly Ile Leu Phe
 65 70 75 80
 Ala Val Val Leu Thr Phe Gln Leu Arg Ala Asn Arg Tyr Ile Pro Ala
 85 90 95
 Leu Tyr Trp Ser Thr Val Leu Leu Ile Ser Val Phe Gly Thr Leu Ile
 100 105 110
 Thr Asp Asn Met Thr Asp His Phe Gly Val Pro Leu Ala Leu Ser Thr
 115 120 125
 Ser Val Phe Gly Gly Leu Leu Val Leu Thr Phe Gly Leu Trp Tyr Ala
 130 135 140
 Lys Glu Lys Thr Leu Ser Ile His Ser Ile Asn Ser Leu Lys Arg Glu
 145 150 155 160
 Thr Tyr Tyr Trp Ile Ala Ile Leu Phe Thr Phe Ser Leu Gly Thr Ala
 165 170 175
 Ala Gly Asp Trp Ala Ala Glu Ser Leu Gly Leu Gly Tyr Leu Asn Ala
 180 185 190
 Ala Ile Val Phe Gly Ala Leu Ile Ala Leu Thr Ala Val Ser Arg Tyr
 195 200 205
 Leu Phe Lys Ala Asn Ser Val Leu Cys Phe Trp Ile Ala Tyr Ile Leu
 210 215 220
 Thr Arg Pro Leu Gly Ala Ser Cys Gly Asp Leu Leu Ser Gln Pro Leu
 225 230 235 240
 Thr Ser Gly Gly Leu Gly Leu Gly Thr Thr Gly Thr Ser Ile Leu Phe
 245 250 255
 Leu Leu Thr Ile Thr Ser Leu Ile Gly Tyr Leu Thr Tyr Lys Met Lys
 260 265 270
 Leu Glu Glu Ile Asn Arg
 275

<210> 10812

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 10812

Lys Arg Asn His His Phe Ala Gly Cys Asn Lys Arg Gly Ala Ser Val
 1 5 10 15
 Phe Val Phe Ala Phe Ser Lys Asn Gln Thr Pro Cys Ile Gln Asn His
 20 25 30
 Ser Tyr His Phe Leu Lys Asn Asp Phe Thr Ile Phe Ile Ser Lys Ala
 35 40 45
 Gly His Ser Leu Ser Phe Tyr Gly Gln His Thr Pro Asp Glu Pro Ala
 50 55 60
 Tyr Pro Ile Val Asn Ile Trp His
 65 70

<210> 10813

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 10813

Pro Pro Gly Thr Asp Val Asp Pro Arg Pro Gln Val Cys Ile Leu Ala
 1 5 10 15
 Val Ala Ala Gly Ala Cys Pro Ala Ser Cys Pro Ala Val Cys Pro Ala
 20 25 30
 Gln Ala Val Val Glu His Gly Arg Gly Asn Ala Phe Ile Pro His Ile

```
<210> 10814
<211> 162
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10815
<211> 82
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10816
<211> 160
<212> PRT
```


<213> Enterobacter cloacae

<400> 10816

```

Thr Met Leu Asn Ile Leu Ile Gln Glu Thr Asp Leu Phe Phe Gln Ala
1      5      10      15
Gly Leu Gln Ser Phe Phe Glu Asp Phe Phe Lys His Asn Phe His Arg
      20      25      30
Ser Ile Thr Phe His Leu Ala Leu Thr Asn Glu Asn Val Ser Gln Ala
      35      40      45
Asp Ile Ile Val Leu Ser Leu Cys Gln Gly Glu Thr Leu Thr Cys Phe
      50      55      60
Pro Glu Leu Leu Ala Arg Gln Lys Gly Ile Val Ile Gly Leu Val Asp
65      70      75      80
Asp Glu Leu Arg Phe Ser Ala Leu Pro Ser Cys Phe Gln Asp Ile Ile
      85      90      95
Phe Leu Pro Arg Arg Ala Ser Leu Asp Arg Ile Ser Gly Val Leu Phe
      100      105      110
Ile Ala Trp Phe Thr Thr Gln Leu Pro Gly Tyr Thr Trp Asn Lys Lys
      115      120      125
Thr Cys Phe Asp Cys Gln His Lys Gly Leu Ser Arg Gln Gln Ile Arg
      130      135      140
Ile Leu Val Asn Phe Tyr Arg Gly Leu Ser Val Val Gln Thr Ala
145      150      155      160

```

<210> 10817

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10817

```

Lys Ser Ile Ala Arg Leu Ala Thr Val Ala Phe Thr Ala Thr Val Glu
1      5      10      15
Leu Leu Arg Thr Gly Lys Gly Tyr Ser Asp Gln Ile Ala Ile Met Pro
      20      25      30
Val Gly Ile Lys Gly Met Ser Phe Glu Met Arg Leu Asn Cys Leu Asn
      35      40      45
Thr Cys Phe Cys Met Leu Thr Gln Leu Lys Pro Val Val Cys His Thr
      50      55      60
Ala Leu Leu Leu Pro Ser Ala Leu Ser His Leu Ala
65      70      75

```

<210> 10818

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 10818

```

Ser Phe Asn Ile Asn Glu Ala His Met Arg Asn Phe Asp Met His Gly
1      5      10      15
Lys Gly His Gly Arg Gly Leu Gly Arg His Arg Met Gly Lys Gly Ile
      20      25      30
Val Ile Gly Ala Val Leu Phe Val Val Leu Gly Leu Leu Val Met Ser
      35      40      45
Leu Trp Asn Ala Leu Leu Pro Ala Ile Leu Gly Val Lys Ala Ile Gly
      50      55      60
Phe Trp Gln Ala Leu Gly Ile Leu Leu Leu Ser Arg Ile Leu Phe Gly
65      70      75      80
Gly Leu Gly Phe Arg Pro Gly Met Phe Gly Ala His Arg Arg Met His
      85      90      95
Glu Gln Trp Met Asn Met Ser Pro Glu Gln Arg Glu Ala Phe Ile Gln
100      105      110

```

```
<210> 10819
<211> 101
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10820
<211> 77
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10821
<211> 67
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 10821
Ala Ile His Phe Phe Leu Ser Leu Ser Glu Phe Ser Ile Pro Asp Tyr
1      5      10
Leu Met Val Gly Phe Lys Tyr Lys Thr Gly Gln Lys Ile Leu Asn Gln
20      25      30
Glu Ala Met Leu Ser His Phe Phe Ala Thr Phe Pro Thr Val Ala Ala
35      40      45
Ala Val Phe Ser Asp Asn Ser Tyr Ser Leu Thr Val Asn Ala Gly Met
50      55      60
Gly Ala
65

```

<211> 205

<212> PRT

<213> Ent

<213> Enterobacter cloacae

<400> 10822

Arg Met Ile Arg Gln Gly Phe Ile Leu Thr Thr Ala Met Leu Leu Ser
1 5 10 15

Gly Cys Gly Tyr His Phe Ala Asn Gln Val Asp Ala Tyr Asp Leu Met
20 25 30

Pro Arg Pro Val Thr Asn Lys Arg Phe Gln Ile Val Pro Asp Glu

Ser Ile Gln Ser Arg Met Phe Ser Gly Arg Phe Ala Asp Gly Leu Ala

Lys Lys Gly Val Ile Ile Ser Thr His Gln Pro Asp Tyr Val Leu Arg
65 70 75 80

Phe Arg Ile Ser Ser Gln Glu Asn Met Gln Tyr Ser Glu Leu

				85					90					95				
Leu	Thr	Gly	Val	Thr	Gly	Tyr	Val	Val	Asp	Lys	Lys	Thr	Thr	Arg	Thr			
			100					105					110					

Asp Lys His Gly Glu Leu His Thr Asp Tyr Asp Tyr Lys Pro Val Asp

115 120 125
Gly Val Ile Gly Thr Glu Thr Met Ser Gln Met His Tyr Met Arg Gln

130 135 140
Leu Asp Val Glu Val Tyr Pro Ser Ala Lys Gly Ala Lys Gln Val Leu

145 150 155 160
Lys Val Ser Met Gln Ser Asn Ala Pro Val Pro Ser Asp Ser Ile Ala

165 170 175
Tyr Ser Ala Met Ile Asp Ala Phe Thr Asp Lys Phe Asp Ala Pro Leu

Arg Ser Gly Asn Tyr Val Ala Val Ile Pro Trp Asn

195 200 205

<210> 10823

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10823

Thr Thr Cys Ala Glu Thr Glu Leu Asn Ile Tyr Leu Ser Val Glu Gln
1 5 10 15

Phe	Asn	Asn	Thr	Val	Arg	Pro	Asn	Phe	Leu	Lys	Ser	Leu	Ser	Asp	His
			20					25					30		

Pro Asp Ala Leu Ala Thr Phe Glu Pro Asn Asp Leu Met Lys Leu Cys
35 40 45

Asn Arg Gln Gly Pro Leu Trp Val Ala Gly Ser Pro Gln Asp Pro Ser

65

<210> 10824

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 10824

Asn Thr Ile Asn Lys Leu Glu Ser Leu Pro Ser Glu Val Asn His Tyr
1 5 10 15

Tyr Glu His Cys Thr Val Pro Val Ile Asp Trp Phe Phe Lys Gln Ala
20 25 30

Thr Glu Ala Leu His His Gly Leu Trp Leu Pro Ala Cys Thr Ser Phe
 35 40 45
 Leu Asn Gly Ile Glu Thr Ser Leu Arg Val Thr Leu Lys Leu Lys Ser
 50 55 60
 Thr Val Asn Val Gln Gln Ser Val Pro Val Leu Val Asp Leu Asp Gly
 65 70 75 80
 Thr Ser Val Met Ser Asn Ala Leu Met Arg Lys Ala Lys Gln Glu Gly
 85 90 95
 Met Pro Ile Glu Leu Leu Ser Phe Pro Ala Glu Lys Asn Met Leu Ala
 100 105 110
 Lys Ile Asp Ala Gly Lys Lys Pro Glu Ala Asp Ile Val Arg Leu Arg
 115 120 125
 Asn Ser Leu Cys His Gly Asn Ile Leu Glu Phe Ile Met Ser Val Lys
 130 135 140
 Val Gly Ser Pro Asp Pro Ile Arg Ile Phe Thr Pro Gly Asn Cys Cys
 145 150 155 160
 Gly Leu Ala Leu Leu Ser Ala Leu Ser Lys Lys Trp Thr Val Gly
 165 170 175
 Leu His Gln Tyr Trp Ile Asp Asn Asn Leu Thr Ser Cys
 180 185 190

<210> 10825

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 10825

Thr Met Lys Leu Lys Asn Ile Leu Leu Cys Ala Met Met Ser Val Ala
 1 5 10 15
 Phe Gly Ser Ser Ala Asn Thr Thr His Lys Val Glu Asn Glu Pro Ile
 20 25 30
 Pro Asn Ile Ile Leu Asp Gly Lys Val Asp Asp Ile Cys Lys Asp Ala
 35 40 45
 Ser Ile Arg Thr Glu Leu Asn His Asp Lys Ala Lys Glu Leu Val Thr
 50 55 60
 Thr Asn Leu Lys Gln Ala Leu Pro Leu Asn Thr Val Pro Asp Lys Leu
 65 70 75 80
 Asp Glu Val Ala Glu Ala Phe Val Asn Arg Asp Lys Gly Ala Ser Glu
 85 90 95
 Thr Ala Asp His Cys Leu Val Asn Val Arg Asn Lys Tyr Trp Glu Met
 100 105 110
 Tyr Pro Ser Glu Asp Lys
 115

<210> 10826

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 10826

Glu Val Cys Met Lys Ser Thr Leu Leu Ser Thr Leu Met Leu Val Ala
 1 5 10 15
 Val Gly Val Gln Pro Val Phe Ala Ala Gln Cys Gln Tyr Gly Ala Cys
 20 25 30
 Gly Thr Glu Asn Asp Pro Gly Ile Gly Phe Leu Met Ser Ser Val Gln
 35 40 45
 Met Asp Lys Gly Glu His Leu Lys Glu Leu Ser Gly Val Ala Thr Thr
 50 55 60
 Gly Asp Thr Ile Ser Lys Lys Met Glu Ser Tyr Leu Gly Asn Lys Lys
 65 70 75 80
 Leu Lys Val Asn Thr Asp Ser Thr Arg Lys Gly Pro Gly Asn Thr Thr

				85					90					95			
Ile	Arg	Pro	Thr	Asp	Glu	Leu	Ala	Pro	Thr	Arg	Gln	Leu	Lys	Val	Ile		
			100					105					110				
Arg	Pro	Glu	Leu	Val	Lys	Asn	Pro	Asp	Ser	Gln	Leu	Val	Val	Ala	Phe		
		115					120					125					
Asn	Glu	Arg	Leu	Ala													
	130																

<210> 10827

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 10827

Glu	Arg	Pro	Glu	Gly	Lys	Lys	Met	Ser	Ile	Leu	Ser	Ser	Phe	Val	Ile		
1				5					10					15			
Arg	Ala	Thr	Gly	Ile	Pro	Asp	Lys	Lys	Tyr	Leu	Arg	Asp	Pro	Val	Ile		
		20						25					30				
Lys	Arg	Cys	Tyr	Lys	Arg	Leu	Ser	Arg	Arg	Val	Pro	Ala	Leu	Met	Thr		
		35					40					45					
Gly	Trp	Leu	Leu	Cys	Ile	Leu	Gly	Ser	Gly	Tyr	Val	Ser	Met	Ala	Leu		
	50					55					60						
Glu	Gln	Pro	Asp	Ser	Thr	Val	Leu	Leu	Ser	Leu	Leu	Leu	Leu	Tyr	Val		
65					70					75					80		
Met	Ser	Gly	Ile	Leu	Leu	Met	Gln	Phe	Gln	Tyr	Met	Tyr	Ser	Glu	Arg		
			85						90					95			
Ser	Ile	Gly	Tyr	Lys	Phe	Tyr	Leu	Glu	Val	Leu	Met	Asn	Ala	Ala	Ala		
		100						105					110				
Ser	Thr	Gln	His	Lys	Glu	Gln	Leu	Gln	Tyr	Leu	Phe	Ile	Asn	Lys	Pro		
		115					120					125					
Asn	Ser	Ile	Thr	Met	Gly	Asp	Leu	Tyr	Arg	Leu	Tyr	Asp	Phe	Asn	Gly		
	130					135					140						
Gly	Gly	Arg															
145																	

<210> 10828

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 10828

Lys	Arg	Pro	Cys	Tyr	Thr	Ser	Ser	Asn	Leu	Phe	Phe	Val	Cys	His	His		
1				5					10					15			
Asn	Arg	Ile	Arg	Lys	Gly	Glu	Arg	Ser	Met	Thr	Arg	Ile	Ala	Leu	Ala		
		20						25					30				
Pro	Ser	Lys	Met	Val	Leu	Leu	Met	Ser	Leu	Val	Ile	Thr	Gly	Ala	His		
		35					40					45					
Ala	Ser	Pro	Glu	Gln	Pro	Leu	Ile	Lys	Asp	Thr	Pro	Phe	Val	Ser	Gly		
	50					55					60						
Gln	Ala	Tyr	Lys	Lys	Gly	Phe	Phe	Trp	Tyr	Asp	Asp	Pro	Ala	Lys	Lys		
65					70					75					80		
Ser	Glu	Ala	Glu	Glu	Glu	Glu	Val	Leu	Pro	Pro	Thr	Gly	Ala	Ala	Ser		
			85						90					95			
Ser	Pro	Ser	Lys	Glu	Glu	Met	Val	Asp	Leu	Asn	Ser	Lys	Trp	Leu	Lys		
		100						105					110				
Glu	Asn	Met	Pro	Arg	Leu	Leu	Thr	Gln	Ala	Met	Asp	Asn	Pro	Thr	Ala		
		115					120					125					
Glu	Asn	Leu	Ser	Arg	Tyr	Tyr	Thr	Ala	Gln	Arg	Leu	Met	Leu	Asp	Ile		
	130					135					140						
Ser	Thr	Arg	Phe	Ser	Asp	Lys	Ser	Lys	Asp	Tyr	Phe	Leu	Lys	Asn	Pro		
145					150					155					160		

```
<210> 10829
<211> 64
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10830
<211> 105
<212> PRT
<213> Enterobacter cloacae
```

<400> 10830																
Leu	Ser	Lys	Glu	Val	Ser	Met	Lys	Ser	Ala	His	Leu	Val	Cys	Leu	Leu	
1				5					10					15		
Val	Cys	Leu	Ile	Phe	Ala	Ala	Phe	Val	His	Ala	Gln	Glu	Lys	Ser	Ala	
			20					25					30			
Pro	Glu	Lys	Glu	Ala	Gln	Ile	Lys	Gln	Gln	Val	Leu	Lys	Asp	Val	Lys	
		35					40					45				
Lys	Thr	Cys	Thr	Pro	Gln	Lys	Lys	Gln	Ser	Asp	Lys	Ala	Trp	Gln	Ala	
	50					55					60					
Met	Ile	Leu	Ser	Ser	Glu	Ala	Asn	Gln	Leu	Leu	Ile	Lys	Asn	Ala	Ile	
65					70					75				80		
Thr	Ala	Val	Lys	Arg	Asp	Asn	Leu	Asp	Ala	Tyr	Trp	Asp	Ala	Val	Ser	

95

<400> 10831

<210> 10832

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 10832

Ala	Cys	Phe	Thr	Met	Ser	Ile	Ser	Thr	Leu	Ala	Arg	Val	Phe	Thr	Pro
1				5					10					15	
His	Gly	Asn	Ile	Val	Tyr	Thr	Ala	Asn	Asp	Phe	Arg	Gln	Thr	Leu	Arg
				20					25					30	
Ile	Val	Phe	Ala	Gly	Met	Ile	Ala	Leu	Ser	Ile	Ser	Ser	Phe	Tyr	Asn
				35				40				45			
Thr	Ser	Tyr	Gly	Val	Phe	Phe	Val	Val	Tyr	Pro	Ile	Met	Leu	Leu	Ser
	50					55					60				
Leu	Val	Pro	Val	Phe	Asn	Arg	His	Val	Ala	Lys	Gln	Phe	Ile	Phe	Ser
65					70					75					80
Ala	Ser	Leu	Asn	Cys	Val	Glu	Met	Val	Leu	Ile	Ile	Gly	Tyr	Leu	Ser
				85					90					95	
Gln	Trp	Pro	Val	Ile	Met	Thr	Leu	Val	Val	Phe	Ala	Leu	Tyr	Val	Met
				100				105					110		
Arg	Phe	Arg	Phe	Met	Ser	Lys	Gly	Pro	Leu	Phe	Leu	Phe	Gly	Ser	Met
				115			120					125			
Gly	Val	Val	Cys	Gln	Ser	Val	Met	Leu	Asn	Phe	Met	Ser	Tyr	Pro	Thr
						135					140				
Thr	Asn	Trp	His	Thr	Leu	Leu	Phe	Ser	Asn	Ile	Glu	Ala	Ser	Val	Met
145					150					155					160
Ala	Val	Cys	Leu	Ser	Ala	Leu	Met	Asn	Tyr	Leu	Leu	Pro	Asp	Val	Glu
				165					170					175	
Pro	Arg	Lys	Pro	Pro	Pro	Leu	Ile	Glu	Lys	Asp	Asp	Ala	Arg	Val	Arg
				180				185					190		

His Glu Ser Leu Leu Ser Gly Thr Val Ala Thr Leu Ile Phe Val Val
 195 200 205
 Phe Gln Ile Ser Asp Leu Ser Asp Ser Leu Ser Ala Leu Met Ala Gly
 210 215 220
 Ile Leu Ile Leu Phe Pro Met His Tyr Arg Gly Ser Val Ile Ser Ser
 225 230 235 240
 Ile Trp Arg Val Val Gly Val Val Leu Gly Cys Leu Tyr Ile Leu Val
 245 250 255
 Val Gln Leu Ile Leu Tyr Asp His Ser Ser His Met Leu Leu Met Met
 260 265 270
 Pro Leu Ile Gly Leu Gly Leu Ala Phe Gly Ala Arg Leu His Val Met
 275 280 285
 Glu Lys Val Gly Ala Gly Val Gly Phe Ala Ser Ile Thr Thr Ile Gly
 290 295 300
 Ile Met Phe Gly Gln Asn Met His Pro Asp Ser Asp Leu Val Phe Ser
 305 310 315 320
 Asp Leu Tyr Arg Ile Thr Ser Val Thr Phe Ala Leu Val Val Thr Leu
 325 330 335
 Thr Met Val Phe Leu Val His Leu Ile Leu Asn Arg Phe Glu Ala Thr
 340 345 350
 Arg Tyr Val Ile Ala Pro Pro Lys Ala Asp
 355 360

<210> 10833

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10833

Phe Ile Lys Gly Pro Gln His Gly Arg Arg Gly Ala Gly Ile Ile Asn
 1 5 10 15
 Tyr Lys Val Asp His Ser Cys Ser Trp Arg Arg Ala Val Ser Arg Thr
 20 25 30
 Ala Gly Ala Gly Asn Cys Val Gln Cys Ala Pro Val Asn Gly Leu Ile
 35 40 45
 Pro Phe Phe Arg Arg Asn Leu Glu Gly Asp Lys Ile Val Ile Ile Gln
 50 55 60
 Ser Arg Asp Lys Gln Arg Arg Phe Phe Ile Ile Ile His Lys Ser Gly
 65 70 75 80
 Ala Glu

<210> 10834

<211> 90

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (90)

<400> 10834

Arg Ser Gly Phe Ile Tyr Pro Gln His Arg Leu Ile Gln Glu Val Thr
 1 5 10 15
 Tyr Asp Ser Phe Arg Ser Asn Phe Leu Phe Phe Tyr Tyr Phe Leu Gly
 20 25 30
 Ser Leu Leu Pro Val Tyr Pro Ala Pro Ile Thr Lys Lys Val Gly Met
 35 40 45
 Leu Val Val Pro Leu Thr Leu Thr Phe Gly Cys Tyr Ile Tyr Ala Ile
 50 55 60
 His Leu Asp Asp Ser Ala Gln Gln Thr Asn Leu Leu Val Val Thr Thr


```
<210> 10835
<211> 62
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10836
<211> 337
<212> PRT
<213> Enterobacter cloacae
```

<div><div><div><400></div><div>10836</div></div></div>																
Ile	Arg	Ser	Thr	Lys	Gly	Gly	Lys	Arg	Val	Met	Gly	Arg	His	Gln	Pro	
1				5					10					15		
Cys	Pro	Thr	Met	Ala	Val	Glu	Thr	Gly	Lys	Arg	Lys	Ala	Gln	Lys	Gly	
			20					25					30			
Glu	Arg	Glu	Glu	Ile	Thr	Met	Met	Lys	Glu	Pro	His	Pro	Leu	Leu	Gln	
			35				40					45				
Leu	Val	Leu	Asn	Asp	Ser	Gly	Arg	Leu	Thr	Met	Pro	Val	Tyr	Tyr	Arg	
	50					55					60					
Asp	Gln	Gln	Tyr	Cys	Pro	Thr	Cys	Leu	Thr	Lys	Val	Leu	Lys	Ser	Glu	
65				70						75					80	
Asp	Gly	Ser	Leu	Ala	His	Leu	Gly	Glu	Ile	Asn	Gln	Asn	Thr	Cys	Arg	
				85					90					95		
Pro	Ser	Ile	Ser	Val	Val	Val	Thr	Lys	Ala	Ile	Ile	Glu	Met	Leu	Cys	
			100					105					110			
Asp	Gly	Glu	Lys	Ile	Phe	Val	Asn	Pro	Ile	Arg	Tyr	Arg	Gly	Arg	Val	
			115				120					125				
Leu	Ala	Pro	Ser	Val	Ile	Phe	Ser	Pro	Asp	Thr	His	Thr	Phe	Lys	Pro	
	130					135					140					
Phe	Ile	Asn	Thr	Asp	Tyr	Gln	Pro	Val	Gly	Ala	Asn	Trp	Lys	Ser	Glu	
145				150						155					160	
Lys	Gly	Tyr	Lys	Leu	Gly	Leu	Phe	Tyr	Leu	Lys	Asp	Arg	Ala	Asn	Ser	
				165					170					175		
Ile	Asn	Lys	Glu	Glu	Phe	Asp	Phe	Ile	Ala	Val	Ile	Asp	Pro	Lys	Ala	
			180					185					190			
Met	Gln	Lys	Glu	Phe	Ile	Ser	Ala	Trp	Ser	Glu	Val	Asp	Glu	Lys	Asn	
			195				200					205				
Pro	Leu	Glu	Thr	Leu	Lys	Gln	Ile	Leu	Arg	Ser	Lys	Asn	Asn	Ser	Ser	
	210					215					220					
Leu	Trp	Val	Lys	Trp	Pro	Gly	Lys	Ile	Glu	His	Ala	Gln	Lys	Gly	Asn	
225				230						235					240	
Cys	Asn	Glu	Asn	Tyr	Trp	Phe	Asp	Tyr	Gln	Ser	Asp	Asn	Gln	Glu	Val	
				245					250				255			
Asn	Cys	Thr	Val	Ser	Val	Val	Gly	Ile	Glu	Gly	Asn	Ser	Ser	Gly	Glu	
			260					265					270			
Thr	Ile	Tyr	Arg	Leu	Gln	Thr	Leu	Leu	Lys	Arg	Lys	Leu	Asn	Glu	Tyr	
			275				280					285				

Gln Leu Val Arg Ser Leu Gly Thr Ile Met Leu Leu Asp Asn Thr Gly
 290 295 300
 Asn Met Ile Pro Ser Asn His Pro Tyr Phe Glu Val Ile Ser Lys Ala
 305 310 315 320
 Cys Ile Asn Gly Val Arg Asp Phe Val Arg Gln Asn Pro Trp Val Val
 325 330 335

<210> 10837

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 10837

Leu Val Ser Pro Ala Arg Tyr Gly Ile Leu Phe Met Phe Gly Arg Leu
 1 5 10 15
 Gln Tyr Arg Pro Gly Thr Met Asp Lys Gln Gly Pro Gln Ile Gly Ile
 20 25 30
 Thr Ser Leu Ala Tyr Pro Glu Gln Asp Leu Phe Thr Pro Thr Gly Val
 35 40 45
 Leu Thr Trp Asn Gln Ser Glu Pro Gly Ser Gln Leu Ser Ala Ile Leu
 50 55 60
 Glu Ile Val Gly Phe Thr Asn Gly Arg Asn Gln Arg Ala Gly Gly Asn
 65 70 75 80
 Arg Ala Asn Thr Arg Asp Leu Ala Asp Thr Leu Ala Glu Ser Ile Leu
 85 90 95
 Pro Ile Ala Leu Leu Asn Leu Leu Val Glu Cys Ser Asp Asp Ile Glu
 100 105 110
 Gln Val Arg His Val Val Leu
 115 120

<210> 10838

<211> 443

<212> PRT

<213> Enterobacter cloacae

<400> 10838

Glu Thr Thr Met Ser Gln Lys Phe Ala Val Met Ile Ala Tyr Asp Asp
 1 5 10 15
 Asp Pro Asn Val Lys Arg Tyr Ser Pro Asp Phe Gln Thr Gln Asp Glu
 20 25 30
 Phe Ala Lys Gly Trp Gln Ser Ala Leu Lys Lys Ala His Thr Ser
 35 40 45
 Gly Gln Lys Ser Val Ile Thr Cys Gly Cys Arg Gly Lys Gly Glu Lys
 50 55 60
 Arg Leu Tyr Val Arg Ala Leu Pro Asn Gly Asp Ala Phe Ile Leu Val
 65 70 75 80
 Lys Ala Ala Asn Thr Gly Ile Glu His Asp Pro Ser Cys Val Phe Phe
 85 90 95
 Ser Leu Asp Ala Arg His Thr Gly Leu Lys Gly Tyr Ala Ser Gly Val
 100 105 110
 Val Arg Ile Thr Thr Glu Gly Asp Met Ala Val Arg Leu Gly Ile Gly
 115 120 125
 Met Thr Glu Lys Asp Pro Pro Glu Lys Ser Glu Val Pro Pro Leu Pro
 130 135 140
 His Val Gln Arg Pro Glu Gly Gly Gln Ala Ser Met Thr Leu Leu Gly
 145 150 155 160
 Leu Leu Ser Leu Leu Trp Thr Glu Ser Gly Leu Asn Val Trp Tyr Pro
 165 170 175
 Lys Met Ala Gly Lys Arg Asn Asp Ser Leu Val Arg Tyr Arg Leu Leu

180 185 190
 Glu Thr Ala Lys Gln Ile Arg Thr Gly Arg Ala Cys Ile Gly Asp His
 195 200 205
 Leu Phe Ile Gly Val Pro Asp Pro Lys Gln Pro Val Ala Gln Ser Gln
 210 215 220
 Ile Gln Arg Leu Ser Ser Gln Ala Met Ser Asp Lys Arg Leu Met Leu
 225 230 235 240
 Leu Ser Val Leu Pro Arg Tyr Asp Ala Glu Lys His Glu Lys Pro Leu
 245 250 255
 Lys Phe Leu Pro Leu Arg Asn Phe Gly Gly Leu Pro Leu Ile Phe Phe
 260 265 270
 Asn Ser Glu Gly His Trp Asp Ser Val Lys Lys Arg Phe Ser Ser Glu
 275 280 285
 Tyr Ala Ala Trp Lys Ser Gly Ala Lys Ile Val Val Phe Ala Leu Thr
 290 295 300
 Ser Pro Ala Ala Val Thr Gly Arg Gly Pro Ser Val Arg Ala His Gln
 305 310 315 320
 Ile Val Leu Met His Val Ser Glu Asn Trp Ile Pro Leu Asp Ser Ser
 325 330 335
 Tyr Glu Ala Val Val Ala Glu Lys Leu Asp Ala Glu His Arg Gln Tyr
 340 345 350
 Val Lys Pro Met Arg Tyr Asp Ala Ser Ile Ser Glu Val Phe Pro Asp
 355 360 365
 Phe Tyr Leu Leu Asp Thr Lys Ser Asp Lys Pro Phe Pro Met Glu Val
 370 375 380
 Phe Gly Met Ala Thr Pro Ala Tyr Leu Ala Arg Lys Gln Leu Lys Lys
 385 390 395 400
 Asp Tyr Tyr Asn Arg Glu Tyr Gly Pro Tyr Gly Trp Trp His Trp Asp
 405 410 415
 Ala Thr Thr Ala Ser Glu Thr Met Val Leu Pro His Phe Pro Glu Ser
 420 425 430
 Arg Lys Pro Leu Ser Thr Gly Thr Pro Ala
 435 440

<210> 10839

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 10839

Asn Gly Glu Lys Met Ser Tyr Met Leu Ser Leu Ser Glu Gln Thr Lys
 1 5 10 15
 Leu Asn Ala Phe Leu Ser Gly Ile Leu Asp Asp Tyr Lys Thr Gly Val
 20 25 30
 Ile Thr Gln Ile Gln Ala Val Gly Lys Ile Gly Asn Val Phe Ser Ala
 35 40 45
 Leu Glu Ser Gly Asp Ser Lys Lys Val Val His Leu Leu Thr Glu Gly
 50 55 60
 Arg Lys Leu Leu Arg Thr Gly
 65 70

<210> 10840

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 10840

Ala Ser Asn Ala Val Met Val Ser Pro Ser Thr Ile Leu Thr Thr Phe
 1 5 10 15
 Ala Ser Lys Val Val Glu Phe Pro Gln Asp Ala Thr Gly Asn Thr Thr
 20 25 30

Ile Met Met Gly Lys Ser Asn Phe Val Lys Lys Asn Ile Ile Ser Pro
 35 40 45
 Glu Phe Val Glu Tyr Arg His Val Ser Thr Ser Leu Phe Thr Gly Ser
 50 55 60
 Ile Leu Thr Ser His Tyr Phe Met Gly Gly Leu Lys Thr Asn Leu Phe
 65 70 75 80
 Ala Thr

<210> 10841

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10841

Cys Gln Arg Ser Thr Met Thr Tyr Phe Glu Ser Ala Glu Gly Glu Thr
 1 5 10 15
 Val Ser Lys Glu Arg Ala Leu Gln Glu Leu Ser Arg His Cys Val Pro
 20 25 30
 Glu Thr Asp Phe Glu Glu Phe Phe Ser Asp Met Gly Val Lys Glu Gln
 35 40 45
 Tyr Asp Ala Gln Glu Val Leu Leu Trp Leu Gly Tyr
 50 55 60

<210> 10842

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 10842

Phe Lys Ala Thr Met Asn Met Lys Lys Pro Lys Ala Ala Leu Gln Asn
 1 5 10 15
 Ala Met Lys Glu Asp Val Pro Ala Val Thr Gln Ile Gln Met Arg Ser
 20 25 30
 Thr Val Ser Arg Lys Val Arg Tyr Val Lys Gln Ala Asn Arg Glu Gly
 35 40 45
 Leu Lys Leu Ser Glu Trp Met Ser Arg His Leu Asp Ala Val Cys Asp
 50 55 60
 Thr Ala Asp Glu Ile His Lys Gly Lys Arg Ser Thr Pro Val Ala Pro
 65 70 75 80
 Gly Lys Ile Pro Pro Glu Val Tyr Gln Val Ile Tyr Asp Gln Cys Gly
 85 90 95
 Gly Phe Val Glu Cys Asp Ala Asn Ala Gln Val Ile Trp Glu Ala Cys
 100 105 110
 Arg Asp Ala Ile Leu Asn Gly Asp Lys Gly
 115 120

<210> 10843

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 10843

Gly Asn Arg Met Cys Asp Phe Cys Arg Ala Asp Glu Asn Tyr Phe His
 1 5 10 15
 Met Ala Glu Cys Val Tyr Asp Gln Leu Val Lys Glu Tyr Pro Val Met
 20 25 30
 Trp Leu Arg Asp Ser Thr Arg Ile Gly Ala Cys Tyr Leu Cys Arg Glu
 35 40 45
 Leu Leu Ser Pro Glu Gly Met Val Leu Ala Met Gln Ser Ala Phe Pro
 50 55 60

```
<210> 10844
<211> 76
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10845
<211> 75
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10846
<211> 67
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10847
<211> 208
<212> PRT
```

<213> Enterobacter cloacae

<400> 10847

```

Ile Cys Leu Ile Arg Leu Ser Met Met Asn Lys Glu Gln Leu Ile Asp
1          5          10          15
Lys Leu Glu Arg Val Val Cys Gly Gln Tyr Ser Tyr Glu Met Gln Glu
20          25          30
Leu Ala Tyr Ser Ala Leu Cys Cys Ile Lys Gly Thr Pro Asp Asp Cys
35          40          45
Ala Lys Phe Pro Val Thr Arg Pro Leu Pro Asp Thr Leu Val Asp Val
50          55          60
Trp Asp Glu Ile Gly Gln Tyr Leu Gly Thr Gly Lys Ala Ile Glu Thr
65          70          75          80
Arg Ser Cys Gly Val Ser Leu Leu Leu His Gly His Cys Tyr Asp Ser
85          90          95
Asn His Val Leu Tyr Trp Arg Asn Ala Gly Ala Leu Pro Ala Ala Cys
100         105         110
Asp Thr Pro Leu Ala Gly Gly Ser Arg Lys Leu Phe Thr Cys Ser Ala
115         120         125
Cys Gly Val Asp Gly Leu Asp Glu Pro Pro Glu Thr Ser Cys His Cys
130         135         140
Cys Thr Glu Gly Ala His Trp Ile Glu Ser Arg Leu Phe Thr Ser Gly
145         150         155         160
Gln Ala Asp Pro Glu Phe Arg Pro Val Ala Val Val Lys Glu Cys
165         170         175
Ala Gly Ser Thr Pro Asp Asp Arg Leu Ile Trp Ser Val Ile Glu Gln
180         185         190
Leu Asn Gly Glu Leu Ala Glu Gly Asp Lys Leu Phe Lys Gln Arg
195         200         205

```

<210> 10848

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10848

```

Ser Gly Lys Pro Ala Val Met Pro Phe Leu Thr Glu Thr Lys Gly Lys
1          5          10          15
Arg Gln Val Ser Pro Val Ile Phe Thr Leu Val Arg Lys Ile Leu Met
20          25          30
Asn His Glu Ser Arg Thr Val Tyr Leu Asn Thr Ala Ile Glu Ala Leu
35          40          45
Leu Lys Ala Glu Ala Ala Leu Asn Glu Leu Ala Leu Ala Tyr Val Leu
50          55          60
Lys Pro Gly Glu Lys Ala Ser Ala Cys His Pro Arg Thr Gly Thr Leu
65          70          75          80
Ser Thr Ala Ser Gln Val Arg Lys Leu Arg Arg Val Leu Glu Lys Asn
85          90          95
Lys Leu

```

<210> 10849

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 10849

```

Leu Ser Gln Pro Arg Arg Ile Ser Pro Leu Ile Arg Thr Phe Leu Lys
1          5          10          15
Ser Ser Asp Asp Phe Ser Arg Glu Leu Ser Phe Leu Phe His Arg Ser
20          25          30

```

```

Ile Lys Ile Arg Asn Ser Gly Phe Ala Ile Phe Gly Ala Gly Leu Leu
    35          40          45
Ile Met Ile Phe Gly Leu Cys Leu Trp Leu Leu Ser Leu His Leu Ser
    50          55          60
Pro Ser Val Leu Asp Phe Asp Ile Asp Val Pro Leu Ser Phe Phe Asn
    65          70          75          80
Ser Ser Glu Gly Glu Asp Lys Leu Val Val Ser Asp Phe Gly Asp Ala
          85          90          95
Phe Gly Gly Phe Leu Thr Thr Tyr Ser Lys Leu Leu Leu Gly Ile Met
          100          105          110
Gly Leu Leu Val Val Ser Ser Thr Ala Phe Lys Ile Leu Lys Gly Glu
          115          120          125
Glu Ile Gly Glu Ile Phe Pro Met Leu Leu Ile Ala Gly Ala Phe Leu
          130          135          140
Ile Gly Leu Ser Val Phe Thr Ser Ala Leu Gly Ser Glu Glu Thr Asp
          145          150          155          160
Ala Thr Ser Ala Ser Thr Val Lys Val Ile Lys Lys Tyr Val Lys His
          165          170          175
Glu Lys Tyr Asp Lys Leu Val Ala Tyr Leu Asn Asp Ser Asn Trp Pro
          180          185          190
Ser Gly Glu Glu Val Ser Val Asn Tyr Leu Lys Ala Gln Leu His Ile
          195          200          205
Lys Leu Gly Lys Pro Asp Val Lys Leu Thr Gln Asn Val Val Arg Ala
          210          215          220
Tyr Met Ser Gly Val Leu Gln Ser Asn Ile Pro Val Lys Val Arg Tyr
          225          230          235          240
Ala Leu Glu Lys Thr Ala Leu Asp Lys Ser Val Ser Pro Leu Ala Ile
          245          250          255
Arg Tyr Glu Gln Lys Arg Met Ser Lys Ser His Thr Phe Ser Lys Ala
          260          265          270
Ser Val Asn Cys Leu Lys Val Gly Ser Pro Val Ala Phe Val Gly Val
          275          280          285
Leu Phe Ala Leu Leu Gly Ile Lys Ile Arg Arg Arg Val Arg Phe Leu
          290          295          300
Glu Ser Asn
305

```

<210> 10850

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10850

```

Gly Tyr Met Met Cys Asn Phe Thr Pro Val Gln Ile Ile Ala Asp Tyr
1          5          10          15
Ile Leu Arg Phe Leu Lys Asn Asn Thr Asp Ala Lys Leu Tyr Glu Ala
    20          25          30
Met Gln Arg Leu Glu Lys Lys Ile Gly Gln Phe Val Ala Asp Gly Val
    35          40          45
Asp Glu His Gln Leu Arg Ser Ser Leu Ser Lys Val Cys Arg Ser Arg
    50          55          60
Ser Arg Ala Ala Leu Lys Glu Glu Cys Glu Gln Leu Ile Pro
    65          70          75

```

<210> 10851

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 10851

```

Gly Arg Glu Gly Met Ser Gly Leu Ser Ser Ser Ala Gln Lys Leu Thr

```

```

1           5           10           15
Arg Ala Gln Ile Tyr Val Leu Arg Arg Met Ala Ser Gly Thr Ile Tyr
20
Asp Ile Ser Gly Asn Phe Arg Arg Ala Arg Glu Arg Arg Thr Phe Met
35
Gly Asn Pro Asp Asp Val Thr Cys Arg Ser Ser Pro Val Leu Phe Arg
50
Leu Gly Leu Val Glu Leu Cys Gln Pro Val Arg His Leu Glu Pro Gly
65
Leu Tyr Tyr Arg Leu Lys Leu Ser Ser Ser Gly His Glu Ala Leu Lys
85
Ala Asn Ala His Leu
100

```

<210> 10852

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 10852

```

Glu Thr Glu Pro Asp Thr Ser Leu Leu Ser Gly Lys Ala Gly Gln Gln
1           5           10           15
Met Glu Arg Gln Glu Leu Asn Pro Leu Val Leu Ile Met Ile Glu Glu
20
Asn Lys Met Lys Asp Asn Lys Thr Arg Pro Val Asp Ser Tyr Ala His
35
Ala Asp Phe Met Glu Ser Val Phe Ser Asn Leu Arg Ala Phe Cys Asp
50
Ala Glu Cys Gln Arg Leu Thr Ala Gly Tyr Pro Pro Thr Val Lys Pro
65
Glu Gln Gln Ser Thr Asp Gly Gln Leu Ser Ala Ala
85

```

<210> 10853

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 10853

```

Ile Ile Thr Cys Gln Phe Val Gln Ile Ser Ala Ser Leu Ser Pro Gly
1           5           10           15
Gln Lys Pro Gly Ser Ile Gln Lys Leu Asn Val Pro Val Tyr Leu Tyr
20
Ile Ser Ser Ile Pro Cys Asp Leu Gln Glu Thr Arg Thr Gly Leu Ala
35
Ile Pro Val Leu Pro Leu Ser His His Trp Pro Arg Gln Pro Glu Lys
50

```

65

<210> 10854

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 10854

```

Trp Ala Thr His Ser Val Ser Thr Ser Leu Thr Ile Lys Val Leu Phe
1           5           10           15
Met Ser Asn Ser Phe Asp Lys Pro Gln Thr Leu Pro Val His Asn Ser
20
Asp Ala Glu Pro Phe Phe Pro Lys Asn Leu Gly Pro Phe Ile Glu Gln
30

```



```
<210> 10855
<211> 118
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10856
<211> 63
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10857
<211> 64
<212> PRT
<213> Enterobacter cloacae
```

<400> 10857															
Lys	Asn	Arg	Tyr	Ala	Gly	Lys	Arg	Val	Ile	Pro	Pro	Phe	Ser	Thr	His
1				5					10					15	
Asn	Phe	Thr	Val	His	Leu	Pro	Leu	Thr	Leu	Pro	Val	Ile	Asn	Gly	Ile
			20					25					30		
Leu	Ser	Asp	Trp	Ala	Asp	Pro	Thr	His	Asn	Leu	Asn	Cys	Trp	Leu	Thr

35 40 45
 Val Leu Gln Pro Asn Ser Leu Leu Tyr Leu Ala Gly Val Arg Pro
 50 55 60

<210> 10858

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 10858

Cys Cys Pro Leu Lys Arg Glu Ser Lys Pro Val Thr Thr Leu Val Phe
 1 5 10 15
 Glu Met Ala Asp Ile Asn Lys Leu Ile Glu Glu Ile Arg Thr Ala Lys
 20 25 30
 Thr Phe Ser Val Thr Pro Asp Gln Ile Tyr Asp Pro Ala Cys Tyr Pro
 35 40 45
 Gly Gly Ala Leu Leu Asn Ala Glu Gly Gln Thr Glu Glu Ala Arg
 50 55 60
 Lys Ala Gly Arg Val Phe Phe Pro Ser Ser Ser Lys Ile Ala Ser Thr
 65 70 75 80
 His Leu Val Pro Lys Val Leu Leu Ala His Ser His Gly Val Tyr Leu
 85 90 95
 Ile Thr Asn Ala Glu Leu Glu Gly Ser Pro Ala Ser Arg Asp Thr Val
 100 105 110
 Ala Tyr Ala Gln Gly Met Asn Pro Lys Leu Asp Glu Asp Trp Asp Tyr
 115 120 125
 Ala Cys Asp Ala Ala Leu Gly Gly Ser Asp Cys Ser Tyr Thr Ile Pro
 130 135 140
 Val Glu Trp Leu Glu Leu Ala Val Glu Gln Gly Phe Gln Glu Phe Arg
 145 150 155 160
 Leu Arg Met Ser Glu Thr Asn Ile Lys Leu Val Ser Lys
 165 170

<210> 10859

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 10859

Glu Phe Ser Leu Asn Gly Arg Gln Pro Met Lys Met Phe Phe Thr Pro
 1 5 10 15
 Tyr Val Arg Ile Val Phe Tyr Phe Cys Ala Leu Ile Phe Ile Val Tyr
 20 25 30
 Ser Phe Ser Asp Phe Phe Gln Gly Val Pro Asp Ser Thr Phe Phe Ser
 35 40 45
 Ala Val Ile Thr Leu Leu Val Ile Gly Thr Ile Val Ala Arg His Leu
 50 55 60
 Asp Arg Lys Lys Ser Leu Lys Tyr Thr Ser Gln Ile
 65 70 75

<210> 10860

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 10860

Phe Asn Lys Asp Arg Phe Met His Asn His Glu Ile Gln Thr Ile Ala
 1 5 10 15
 Ile Phe Ser Ala Gln Tyr Lys Asn Ile Glu Asp Ala Glu Asn Ala Gly
 20 25 30
 Ala Leu Tyr Ser Val Asp Ile Glu Tyr Pro Met Thr Leu Asn Asp Leu

```

      35              40              45
Ser Arg Leu Cys Asp Ser Ile Ala Glu Ala Val Gly Val Pro Gly Gly
  50              55              60
Val Lys Tyr Gln Phe Val Ser Gln Pro Glu Ala His Glu Thr Ser Phe
  65              70              75              80

```

<210> 10861

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 10861

```

Pro Val Thr Lys Leu Pro Lys Ser Arg Cys Lys Ala Met Lys Gln Thr
  1              5              10              15
Lys Ser Ser Met Ser Arg Ile Val Gln Leu Tyr Asp Gly Ser Arg Tyr
  20              25              30
Gly Asn Cys Glu Gln Ala Asp Asn Glu Gly Glu Leu Phe Thr Val Val
  35              40              45
Leu Asn Lys Pro Ser Gln Ile Asp Asp Ile Arg Lys Ile Val Asp Thr
  50              55              60
Thr Ala Glu Val Leu Gly Lys Ala Leu Pro Val Leu Leu Phe
  65              70              75

```

<210> 10862

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 10862

```

Ser Gly Glu Ser Ile Met Ile Thr Ser Leu Met Asn Phe Arg Asp Leu
  1              5              10              15
Thr Gly Glu Ala Val Ile Gln Ala Arg Gln Cys Val Ile Asn Ala Glu
  20              25              30
Ile Glu Ala Ala Arg Glu Lys Val Ile His Ala Arg Ser Leu Phe Lys
  35              40              45
Ala Gly Ile His Asn Val Val Asn Gly Ser Ser Gly Ile Lys Ala Ala
  50              55              60
Ala Ala His Phe Leu Val Ile Lys Arg Leu Gln Thr Asp Thr Arg Tyr
  65              70              75              80
Leu Asp Ala Val Ile Thr Asp Asn Leu Cys Met Phe Ser Pro Glu Gly
  85              90              95
Tyr Leu Tyr Leu Phe Met Gln Gln Arg Tyr Phe Leu
  100              105

```

<210> 10863

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 10863

```

Gly Tyr Asn Met Lys Ile Ser Gln Leu Glu Ser Gly Met Gln Val Trp
  1              5              10              15
Ser Val Thr Arg Thr Lys Met Gly Asn Thr Thr Ile Ser Thr Val Ile
  20              25              30
Val His Pro Val Val Ile Ile Glu Ile His Asp Asn His Val Ile Ala
  35              40              45
Arg Trp Asn Gly Asn Ala Pro Arg Arg Phe Gly Glu Thr Ala Ile Arg
  50              55              60
Gly Trp Lys Lys Glu Lys Pro Leu Leu Val Arg Glu Pro Phe Gly Asn

```

```
<210> 10864
<211> 206
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10865
<211> 117
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

<210> 10866
 <211> 179
 <212> PRT
 <213> Enterobacter cloacae

<400> 10866
 Lys Lys Cys Arg Thr Trp Tyr Cys Cys Val Val Ala Gln Leu Asn Asn
 1 5 10 15
 Gln Pro Lys Glu Arg Thr Lys Met Ser Ala Ile Glu Thr Glu Val Lys
 20 25 30
 Asn Asn Ser Asn Glu Ile Ser Leu Arg Gly Tyr Leu Glu Arg Thr Gly
 35 40 45
 Asn Gly Ala Arg Lys Gly Asn Gly Leu Ile Ile Asp Pro Ser Val Val
 50 55 60
 Val Gln Gln Glu Gly Phe Asn Thr Arg Thr Ala Gly Met Gly Glu Leu
 65 70 75 80
 Tyr Tyr Ser Met Pro His Val Val Glu His Leu Asn Ser Leu Ala Asp
 85 90 95
 Ala Tyr Met Glu Asp Pro Phe Ser Val Thr Pro Ile Val Val Gln Met
 100 105 110
 Val Asn Gly Val Pro Val Leu Arg Gln Gly Ala Cys Arg Ile Arg Ser
 115 120 125
 Ile Ala Ile Ala Asn Arg Gln Leu Glu Ala Glu Gly Arg Glu Arg Ile
 130 135 140
 Thr Arg Ile Arg Cys Glu Gln Phe Arg Gly Ser Ala Ser Lys Ala Glu
 145 150 155 160
 Leu Phe Thr Leu Thr Gly Asn Ser Asn Leu Ala Leu Ser Val Val Thr
 165 170 175
 Glu Ala Leu

<210> 10867
 <211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 10867
 Ala Gly Ala Asp Lys Met Glu Asp Ala Ile Asn Val Pro Ile Thr Tyr
 1 5 10 15
 Tyr Asp Ser Asn Gly Cys Leu Ile Val Gly His Asn Leu Val Gly Lys
 20 25 30
 Ile His Pro Gln Leu Phe Asp Lys Leu Val Arg Arg Ser Asn Asp Gly
 35 40 45
 Ser Thr Arg Cys Gln Gln Ala Lys Ile Thr Ser Tyr Leu Glu Gly Leu
 50 55 60
 Leu Asn Gly
 65

<210> 10868
 <211> 92
 <212> PRT
 <213> Enterobacter cloacae

<400> 10868
 Arg Gly Asn Arg Ile Met Ser Ile Pro Met Lys Gly Leu Ser Lys Arg
 1 5 10 15
 Gly Trp Tyr Asn Ser Leu Thr Asp Ser Val Glu Tyr Lys Tyr Phe Asn
 20 25 30
 Gly Gln Thr Glu Ile Ser Glu Ser Ala Tyr Lys Leu Leu Ala Ser Gly
 35 40 45

Asn Lys Pro Lys Pro Thr Val Lys Pro Ala Lys Ala Val Thr Thr Tyr
 50 55 60
 Lys Val Lys Pro Lys Pro Thr Ile Glu Gln Gln Arg Asp Ala Ala Leu
 65 70 75 80
 Lys Glu Ala Ile Lys Lys Gln Met Val Ser Gly Gly
 85 90

<210> 10869

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 10869

Lys Leu Gly Ala Val Pro Val Arg Gln Gly Val Val Val Gly Gly Val
 1 5 10 15
 Ala Pro Gln Pro Leu Thr His Arg Leu Thr Lys Asn Leu Gly Asn Ser
 20 25 30
 Val Arg Lys Pro Glu Phe Ala Asp Arg Trp Gly Arg Pro Thr Gly Phe
 35 40 45
 Tyr Ser Gly Ala Ser Gly Ser Lys Arg Ala His Trp Ser Trp Thr Trp
 50 55 60
 Val Leu Thr Ala Trp Lys Thr Ala Lys Trp Leu Ala Thr Trp Cys Met
 65 70 75 80
 Lys Met Pro Gln Arg Ala His Pro Ile Leu Leu Arg Ser Arg Ala Ala
 85 90 95
 Leu Ala Arg

<210> 10870

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 10870

Pro Ile Ala Ser Val Lys Leu Phe Ala Cys Leu Leu Ser Pro Leu Ser
 1 5 10 15
 Leu Gln Glu Val Ser Asn Met Thr His Ile Phe Tyr Glu Phe Ser Ser
 20 25 30
 Leu Lys Pro Gly Val Pro Asp Val Glu Thr Leu Met Glu Val Ile Asn
 35 40 45
 Ser Ser Glu Leu Thr Arg Phe Val Met Gly Ala Glu Val Val Asp Phe
 50 55 60
 Val Lys Lys Ala Leu Ile Val Asn Thr Thr Ile Gly Ser Phe Lys Asn
 65 70 75 80
 Cys Tyr Phe Ala Phe Asp Asp Gly Ala Tyr Phe Leu Glu Phe Asp Gly
 85 90 95
 Lys Gly Lys Ser Arg Arg Phe Thr Glu Val Pro Asp Trp Phe Val Ser
 100 105 110
 Pro Ala Glu Phe Ala Arg Ser Gln Trp Leu Ile Asn His Asp Leu Ala
 115 120 125
 Asp Val Lys Ala Thr Ala Phe Ile Asp Val Leu Met Ser Tyr Pro Leu
 130 135 140
 Lys Glu Arg Arg Ala His Cys Asn Leu Leu Phe Gly Leu Asp Leu His
 145 150 155 160
 Lys Val Asn Val Val Pro Ala Pro Thr Ala Pro Ala Gly Lys Met Gly
 165 170 175
 Asn Lys Asn Gly Lys Thr Thr Lys Pro Arg Val Thr Asp Leu Gly Ser
 180 185 190
 Phe Glu Leu Phe Thr Ala Phe Phe Ala Arg Met Lys Thr Ala Val Asn
 195 200 205
 Ala Asn Glu Phe Pro Thr Leu Gln Val Leu Thr Gly Gln Glu Asp Leu

210 215 220
 Thr Lys Ala Pro His Asn Leu Lys Gln Gly Ile Arg Thr Trp Phe Lys
 225 230 235 240
 Ala Ile Thr Gly Asp Leu Pro Pro Asn Asn Lys Arg Val Gly Ala Gly
 245 250 255
 Asn Ala Val Leu Phe Cys Ala Pro Val Arg Glu Gln Ile Gln Gln Ile
 260 265 270
 Glu Ala Ile Gly Leu Glu Lys Tyr Tyr Gln Gly Leu Ser Lys Ala Ile
 275 280 285
 Ala Asp Ala Gly Asp Gly Phe Ile Thr Asp Phe Ser Tyr Thr Trp Ser
 290 295 300
 Glu Lys
 305

<210> 10871

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 10871

Arg Ser His Asp Phe Gln Glu Gly Ala Phe Ala Ala Ala Gly Gly Thr
 1 5 10 15
 Gly Tyr Gln Phe Lys Phe Ala Arg Arg Glu Thr Lys Ile Asp Val Leu
 20 25 30
 Lys Asp Gly Val Ile Thr His Thr Lys Ala Asn Ile Pro Asp Ile Gln
 35 40 45
 Lys Ile Phe Phe Ile Ile His Ser Asp Ser Ile Asn Arg Cys Asp Lys
 50 55 60
 Lys Ser Leu Lys His Asn Pro Phe Arg Tyr Ala Ala Leu Ile Ala Leu
 65 70 75 80
 Thr Tyr Ser Lys Cys
 85

<210> 10872

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 10872

Arg Cys Trp Ala Asn Val Ile Thr Val Leu Ser Gly Glu Gln His Asp
 1 5 10 15
 Ser Phe Lys Thr Ser Lys Arg Leu Ile Glu Leu Ile Leu Ile Thr Asn
 20 25 30
 Ile Thr Gly Asp Ser Asn Ile Arg Ile Lys Met Thr Leu Leu Phe Val
 35 40 45
 Glu Val Ser Asn Ile Lys Ile Ser Leu Gly Asn Leu Asp
 50 55 60

<210> 10873

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 10873

Cys Phe Ala Gly Trp Arg Phe Ala Tyr Pro Ala Tyr Arg Thr Val Gly
 1 5 10 15
 Pro Val Ser Ala Ser Ala Thr Gly Gln Lys Gly Asp His Thr Val
 20 25 30
 Ala Phe Phe Tyr Tyr Asn Ser Ser Arg Ala Ala Asp Thr Met Ser Cys
 35 40 45
 Ala Val Arg Pro Tyr Ser Phe Cys Lys Lys Ser Cys Val Pro Thr

50

55

60

<210> 10874

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 10874

Phe	Asp	Glu	Leu	Thr	Leu	Ile	Val	Tyr	Gly	Pro	Ile	Arg	Leu	Ala	Gln
1			5						10					15	
Asp	Thr	Arg	Tyr	Gly	Val	Ala	Met	Thr	Lys	Tyr	Phe	Glu	Arg	Cys	His
		20						25				30			
Ser	Leu	Leu	Trp	Phe	Cys	Thr	Lys	Ile	Leu	Ile	Phe	Ile	Arg	Glu	Val
		35				40					45				
Glu	Val	Gln	Pro	Cys	Arg	His	Pro	Lys	Ser	Arg	Pro				
	50					55					60				

<210> 10875

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 10875

Ala	Ser	Asp	Lys	Val	Ile	Gly	Leu	Asp	Val	Phe	Ala	Asp	Leu	Val	Val
1			5						10					15	
Val	Asp	Gly	Ala	Ile	Thr	Tyr	Gln	Arg	Val	Ser	Asp	Glu	His	Leu	Pro
		20					25					30			
Val	Leu	Asn	Asn	Glu	Arg	Lys	Arg	Asn	Gly	Arg	Ser	Gly	Leu	Val	Arg
		35				40					45				
Tyr	Gly	Glu	Ala	Val	Ser	His	Glu	Asp	Asn	Leu	Arg	Leu	His	Ala	Gly
	50					55					60				
Arg	Arg	Ile	Leu	Asn	Ala	Asp	Pro	His	Pro	Cys	Arg	Val	Ile	Leu	Thr
65					70					75				80	
Ile	Ala	Gly													

<210> 10876

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 10876

Phe	Leu	Ile	Lys	Ile	Lys	His	Glu	Ile	Ser	Gly	Lys	Pro	Val	Leu	Asn
1			5						10					15	
Leu	Ile	Ala	Gly	Lys	Gly	Cys	Phe	Val	Leu	Lys	Tyr	Ile	Pro	Thr	Leu
		20					25					30			
Asp	Val	Leu	Asn	Gly	Ile	Thr	Phe	Lys	Leu	Ser	Val	Asp	Asn	Thr	Phe
		35				40					45				
Pro	Leu	Arg	Pro	Asp	Ser	Leu	Ile	Gln	Phe	His	Gln	Pro	Gly	Ile	Ile
	50					55					60				
Ile	His	Phe	Val	Tyr											
65						70									

<210> 10877

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 10877

Gly	Ile	Ile	Met	Ile	Arg	Met	Glu	Val	Lys	Gly	Leu	Gln	Glu	Phe	Glu
1			5						10					15	


```

Arg Gln Leu Leu Ser Leu Gly Glu Lys Val Gly Thr Gln Val Leu Arg
      20      25      30
Glu Ala Gly Lys Ala Ala Leu Glu Pro Val Leu Glu Asp Met Lys Ala
      35      40      45
His Ala Gly Tyr Asp Glu Ser Ala Lys Asp Glu His Met Arg Asp Ser
      50      55      60
Ile Lys Ile Arg Ser Ser Ser Lys Ala Lys Gly Asn Ala Val Val
      65      70      75      80
Tyr Leu Arg Val Gly Pro Ser Lys Lys His Phe Ile Lys Ala Leu Ala
      85      90      95
Gln Glu Met Gly Thr Val Lys Gln Val Ala Ser Pro Phe Ile Arg Pro
      100      105      110
Ala Leu Asp Tyr Gln Lys Ala Lys Val Leu Arg Ile Leu Ala Ile Glu
      115      120      125
Ile Arg Asp Arg Ile Glu Asn His Arg
      130      135

```

<210> 10878

<211> 135

<212> PRT

<213> Enterobacter cloacae

<400> 10878

```

Arg Phe Tyr Gly Thr Asn Leu Cys Ala Asn Leu Cys Ser Lys Gln Arg
1      5      10      15
Ser Lys Thr Met Lys Ile Val Leu Ser Val Leu Leu Leu Thr Ala Phe
      20      25      30
Asn Ser Tyr Ala Gly Thr Val Asp Asp Tyr Leu Glu Arg His Ser Glu
      35      40      45
Ile Lys Ser Asn Ser Val Ala Glu Thr Tyr Val Ser His Tyr Ala Phe
      50      55      60
Met Ile Ala Met Met Glu Ala Gln Gln Lys His Asn Arg Ser Asp Asn
      65      70      75      80
Glu Phe Ile Thr Gly Leu Leu Ser Asn Asn Gly Asp Val Tyr Ala Arg
      85      90      95
Leu Ala Val Lys Lys Leu Ala Asn Asp Cys Leu Thr Gln Arg Ser Ile
      100      105      110
Gly Gln Ser Gly Glu Leu Asn Asn Lys Glu Cys Asn Ile Val Ile Arg
      115      120      125
Ala Asp Lys Ser Glu Gln
      130      135

```

<210> 10879

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 10879

```

Leu Ile Thr Ile Ala Ala Phe Gly Pro Leu Phe Phe Arg Gly Lys Gln
1      5      10      15
Met Leu Asp Gln Asn Val Val Lys Gln His Cys Arg Ile Asp Thr Asp
      20      25      30
Phe Thr Gly Asp Asp Ala Leu Leu Glu Ile Tyr Thr Gly Ala Ala Ala
      35      40      45
Arg Tyr Val Gln Thr Trp Thr Arg Arg Thr Leu Tyr Glu Lys Glu Ser
      50      55      60
Ser Pro Gly Tyr Ala Asp Asp Pro Asp Pro Ile Leu Leu Asn Asp Asp
      65      70      75      80
Val Lys Ala Ala Met Leu Leu Leu Ile Gly His Trp Tyr Ala Asn Arg
      85      90      95
Glu Ser Val Val Ile Gly Glu Thr Val Ser Gln Val Pro Leu Ala Val

```

100 105 110
 Glu Ala Leu Leu Gln Pro Tyr Arg Ile Tyr Gly Leu
 115 120 125

<210> 10880

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 10880

Gly Glu Leu Arg Glu His Gly Asn Gly Arg Pro Leu Thr Gly Pro Leu
 1 5 10 15
 Phe Phe Gln Glu Asn Trp Met Ala Glu Tyr Gly Val Gln Thr Trp Asp
 20 25 30
 Ala Ser Gly Lys Val Asn Asn Tyr Gly Val Lys Pro Val Ser Val Cys
 35 40 45
 Gly Tyr Leu Gln Leu Ala Gln Asn Gln Lys Thr Gly Ser Tyr Thr Val
 50 55 60
 Ala Leu Pro Pro Gly Cys Arg Leu Thr Tyr Phe Gln Ser Met Asn Gly
 65 70 75 80
 Asp Gln Phe Gly Thr Ser Arg Arg Lys Ile Thr Ile Ser Gly Gly Thr
 85 90 95
 Ala Thr Val Ser Ala Ala Gly Asp Thr Asp Tyr Ser Ala Gly Thr Glu
 100 105 110
 Pro Ala Ala Ala Ala Tyr Leu Ile Phe Gln Ile Glu Arg Ala
 115 120 125

<210> 10881

<211> 473

<212> PRT

<213> Enterobacter cloacae

<400> 10881

Ala Pro Thr Arg Ser Pro Ala Pro Pro Ala Thr Asn Pro Phe Ser Phe
 1 5 10 15
 Glu Gln Thr Pro Leu Arg Arg Gly Phe Leu Leu Pro Gly Glu Asn Met
 20 25 30
 Ile Tyr Thr Thr Gly Thr Ile Ala Ile Ser Gly Asn Thr Leu Thr Gly
 35 40 45
 Thr Gly Thr Asn Phe Thr Ala Ala Gly Ser Leu Ile Arg Asn Gly Cys
 50 55 60
 Thr Val Ile Ala Met Thr Ser Pro Val Gln Val Phe Gln Ile Thr Thr
 65 70 75 80
 Ile Gly Ser Ala Thr Ser Leu Thr Val Thr Pro Ala Ala Asn Pro Ala
 85 90 95
 Val Pro Ala Gly Thr Arg Phe Ala Ile Leu Leu Ser Asp Ser Leu Ser
 100 105 110
 Val Asp Gly Leu Ala Gln Asp Ile Ala Glu Thr Phe Thr Met Tyr Gln
 115 120 125
 Arg Tyr Met Ser Gly Phe Ala Asp Val Met Asn Gly Thr Ser Asp Val
 130 135 140
 Thr Ile Thr Ile Asn Gly Thr Ala Val Thr Val Pro Gly Gln Lys Ser
 145 150 155 160
 Leu Ala Lys Lys Gly Ala Asn Ser Asp Ile Thr Ser Leu Ser Gly Leu
 165 170 175
 Lys Thr Ala Leu Ser Ile Glu Gln Gly Gly Thr Gly Ala Lys Asn Ala
 180 185 190
 Ala Asp Ala Arg Thr Asn Leu Gly Leu Gly Thr Ser Ala Thr Leu Asn
 195 200 205
 Ala Arg Pro Asn Glu Thr Tyr Pro Thr Asp Gly Val Leu Thr Val Gly
 210 215 220

Gln Tyr Gly Ile Gly Ala Gln Asn Pro Pro Leu Thr Thr Asp Phe Lys
 225 230 235 240
 Thr Ile Asp Arg Gly Gly Ile Phe Ala Gly Ala Gly Ser Ala Gly Val
 245 250 255
 Asn Phe Tyr Asn Ala Phe Ala Pro Val Leu Val Met Ser Arg Tyr Ser
 260 265 270
 Ser Ser Ala Met Gln Ala Ile Gln Ala Asp Asn Ser Thr Leu Ala Phe
 275 280 285
 Asn Ile Lys Asp Gly Asn Gly Trp Arg Gly Trp Val Lys Leu Tyr Ser
 290 295 300
 Glu Asn Asn Thr Thr Arg Ala Ser Asp Gly Thr Leu Lys Val Ala Ser
 305 310 315 320
 Pro Val Val Arg Ile Val Arg Ser Gln Glu Cys Arg Arg Ala Asp
 325 330 335
 Val Asp Lys Asp Gly Phe Ser Trp Cys Gly Cys Gly Thr Ala Asn Ala
 340 345 350
 Glu Ala Glu Gly Val Thr Leu Phe Arg Leu Asp Val Gly Val Tyr Val
 355 360 365
 Ile Ser Gly Ser Ala Gly Leu Ala Ser Glu Gly Trp Gln Leu Leu Pro
 370 375 380
 Pro Met Asp Pro Gly Gly Met Gly Glu Leu Gly Val Glu Ala Glu
 385 390 395 400
 Gln Thr Glu Ser Gly Gly Leu Thr Ile Arg Leu Phe Lys Arg Lys Tyr
 405 410 415
 Ile Leu Ser Glu Glu Gly Glu Ile Val Lys Thr Lys Gly Ala Pro Ile
 420 425 430
 Asp Val Pro Ala Asn Ser Trp Ile Asp Val Arg Leu Asp Met Pro Glu
 435 440 445
 Asp Ser Ile Trp Lys Thr Arg Ala Ser Glu Ala Ser Leu Glu Leu Thr
 450 455 460
 Glu Gln Pro Glu Asp Ile Gln Pro
 465 470

<210> 10882

<211> 166

<212> PRT

<213> *Enterobacter cloacae*

<400> 10882

Lys Pro Pro Val Ala Leu Ala Ala Thr Phe Lys Glu Arg Glu Ile Met
 1 5 10 15
 Ala Asp Lys Thr Ser Pro Glu Tyr Ala Met Leu Pro Ala Gly Thr Val
 20 25 30
 Val Met Trp Gly Ala Ala Gly Ser Asp Val Ala Thr Met Lys Pro Leu
 35 40 45
 Ile Asn Cys Lys Ala Leu Gly Ala Thr Gly Gln Thr Gly Ser Phe Val
 50 55 60
 Asp Cys Thr Thr Leu Ile Asp Thr Ser Lys Gln Phe Ile Ser Asp Leu
 65 70 75 80
 Pro Glu Gly Pro Glu Lys Ser Leu Gly Phe Ile Asp Asp Pro Ala Asn
 85 90 95
 Gln Asp Phe Ala Asp Phe Leu Asn Ala Ala Glu Asn Arg Glu Thr Val
 100 105 110
 Gln Phe Tyr Val Glu Leu Pro Asn Gly Arg Thr Ala Asn Met Ile Leu
 115 120 125
 Ala Leu Ser Gly Trp Gln Met Asn Glu Ile Thr Ala Pro Ala Ser Glu
 130 135 140
 Val Ile Gln Ile Thr Val Gln Gly Lys Gln Asn Asn Ile Thr Trp Gly
 145 150 155 160
 Thr Ala Ala Gly Ser
 165

<210> 10883
 <211> 126
 <212> PRT
 <213> Enterobacter cloacae

<400> 10883
 Phe Ser Gly Lys Thr Met Ser Thr Ile Asp Val Ser Ala Leu Lys Ser
 1 5 10 15
 Ala Leu Leu Lys Pro Lys Ser Ala Val Val Thr Ala Glu Ile Phe Gly
 20 25 30
 Thr Thr Val Tyr Leu Arg Arg Met Thr Ala Gly Glu Leu Ile Asp His
 35 40 45
 Glu Glu Ala Leu Arg Asp Ser Gln Ile Ala Glu Asp Ala Arg Lys Ala
 50 55 60
 Ser Glu Ile Ser Val Gln Leu Ile Val Asp Cys Leu Val His Pro Asp
 65 70 75 80
 Gly Ser Leu Ile Ala Ala Lys Asp Lys Pro Thr Ala Ala Glu Leu Leu
 85 90 95
 Gln Thr His Asp Asn Val Ala Leu Leu Asp Ala Ile Ala Thr Val Lys
 100 105 110
 Lys His Ala Leu Gly Lys Leu Glu Asp Ala Glu Lys Asn
 115 120 125

<210> 10884
 <211> 158
 <212> PRT
 <213> Enterobacter cloacae

<400> 10884
 Pro Ser Pro Arg Trp Gly Glu Gly Ile Val Leu His Leu Cys Glu Ser
 1 5 10 15
 Ser Ser Met Arg Ile Lys Thr Gly Leu Met Val Ala Ala Phe Val Met
 20 25 30
 Leu Ala Gly Cys Asn Ala Pro Ala Gln His Val Pro Val Glu Thr Cys
 35 40 45
 Lys Ala Asp Asn Gln Met Gln Gln Thr Thr Leu Tyr Phe Gly Leu Asn
 50 55 60
 Arg Pro Ala Gly Ala Gln Ile Thr Gly Ser Glu Trp Gln Gln Phe Val
 65 70 75 80
 Asp Gln Asp Val Thr Pro Arg Phe Arg Asp Gly Leu Thr Val Phe Asp
 85 90 95
 Ala Arg Gly Gln Trp Leu Gly Asn Asp Gly Lys Val Ala Arg Glu Pro
 100 105 110
 Ser Lys Ala Leu Met Leu Ile His Gly Lys Asp Ala Gln Ser Glu Lys
 115 120 125
 Asn Ile Glu Ala Leu Arg Gly Ile Tyr Lys Ser Arg Phe Ala Gln Glu
 130 135 140
 Ser Val Met Arg Val Asp Gln Pro Val Cys Val Gln Phe
 145 150 155

<210> 10885
 <211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 10885
 Gln Asn Ser Gln Lys Gly Leu Asp Leu Arg Leu Pro Gly Cys Gly Met
 1 5 10 15
 Phe Glu Ala Gly Ala Gln Glu Val Asn Leu Leu Leu Arg Arg Lys Pro
 20 25 30

```
<210> 10886
<211> 78
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 10887
<211> 461
<212> PRT
<213> Enterobacter cloacae
```

<400> 10887																
Arg	Ile	Tyr	Lys	Gln	Gln	Pro	Asp	Pro	Asp	Ser	Thr	Val	Pro	Val	Val	
1			5						10					15		
Met	Ile	Val	Phe	Leu	Tyr	Val	Ile	Ala	Val	Ala	Met	Gly	Leu	Ala	Ile	
		20						25				30				
Arg	Ala	Leu	Thr	Trp	Pro	Glu	Gln	Glu	His	Val	Thr	Ala	Leu	Phe	Phe	
		35					40					45				
Val	Pro	Ser	Val	Ile	Leu	Pro	Ile	Cys	Val	Val	Ser	Leu	Leu	Val	Phe	
		50				55					60					
Thr	Ser	Phe	Ile	Phe	His	Asp	Ala	Asn	Ile	His	Tyr	Ala	Glu	Thr	Arg	
65					70					75					80	
Lys	Phe	Ile	Ala	Lys	Glu	Gln	Glu	Ile	Asn	Leu	Lys	Ala	Tyr	Ala	Arg	
				85					90					95		
Lys	Asn	Ile	Ala	Ile	Ala	Ala	Trp	Ser	Ala	Ile	Thr	Pro	Leu	Glu	Glu	
			100					105					110			
Pro	Ala	Leu	Asn	Met	Leu	Lys	Leu	Glu	Gly	Glu	Phe	Pro	Leu	Ala	Pro	
		115					120					125				
Lys	Thr	Pro	Val	Asn	Ile	Gln	Leu	Glu	Asp	Arg	Phe	Asp	Gln	Thr	Arg	
		130				135					140					
Asn	Glu	Gln	Met	Phe	Tyr	Arg	Leu	Leu	Asp	Pro	Met	Ala	Glu	Lys	Leu	
145					150					155					160	
Lys	Asp	Tyr	Asn	Tyr	Arg	Ile	Phe	Glu	Thr	Val	Val	Trp	Val	His	Gly	
				165					170					175		
Gly	Ser	Gly	Ser	Cys	Ile	Asp	Glu	Leu	Arg	Arg	Thr	Leu	Glu	Arg	Leu	
			180					185					190			
Gly	Ile	Glu	Thr	Ala	Ser	Thr	Cys	Lys	Ile	Glu	Tyr	Ser	Thr	Glu	Cys	
		195					200					205				
Pro	Asp	Tyr	Ala	Ile	Val	Ser	Gln	Trp	Met	Asn	Leu	Ser	Asp	Tyr	Arg	
		210				215					220					
Val	Glu	Asn	Arg	Leu	Ile	Val	Ile	Val	Asp	Leu	His	Glu	Glu	Ser	Gly	

225 230 235 240
 Glu Ser Lys Ser Met Glu Asn Ala Cys Ala Phe Leu Leu Thr Ser His
 245 250 255
 Tyr Val Arg Glu Glu Gly Glu Lys Pro Val Tyr Leu Tyr Gln Pro Met
 260 265 270
 Ser Asp Val Thr Asp Val Glu Asp Lys Met Ala Val Phe Leu Glu Thr
 275 280 285
 Gly Ser Val Leu Thr Pro Lys Asn Leu Trp Tyr Thr Gly Leu Ser Arg
 290 295 300
 Ile Glu Lys Tyr Pro Leu Met Gln Ala Leu Asp Lys Lys Ala Leu Thr
 305 310 315 320
 Val Glu Arg Leu Asp Ile Asp Ala Ser Leu Gly Ala Lys Ser Ala Gly
 325 330 335
 Tyr Arg Trp Leu Ala Leu Ala Phe Ala Ala Asp Ala Val Lys Tyr Ala
 340 345 350
 Gln Gly Glu Gln Leu Ala Ala Tyr Ser Asp Lys Asn Lys Phe Cys Ile
 355 360 365
 Thr Ser Leu Ser Ser Met Lys Thr Ala Ile Pro Lys Lys Leu Thr Trp
 370 375 380
 Cys Asn Trp Ser Asn Pro Leu Tyr Pro Ala Gly Met Ala Ala Leu Phe
 385 390 395 400
 Cys Val Leu Ser Leu Ile Ala Tyr Arg Ile Ser Phe Leu Ala Gln Asn
 405 410 415
 Asp Pro Pro Ala Ile Trp Glu Leu Ile Ala Ser Ile Ile Ile Pro Phe
 420 425 430
 Val Ile Phe Ile Gly Leu Gly Ile Phe Val Phe Ile Ser Lys Thr Asn
 435 440 445
 Glu Ala Tyr Glu Asp Met Glu Tyr Glu Trp Lys Arg
 450 455 460

<210> 10888

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 10888

Met Pro Ala Val Ser Ala Leu Phe Thr Leu Asn Pro His Asp Ala Ile
 1 5 10 15
 Asp Asp Tyr Arg Pro Arg Lys Ile Ile Glu Lys Gln Asp Ile Thr Ser
 20 25 30
 Phe Ala Gln Asn Lys Tyr Gly Phe Thr Val Ser Cys Cys Val Leu Pro
 35 40 45
 Cys Ile Gln Gln Leu Leu Ser Thr Phe Gly Thr Tyr Asn Leu Ile Ser
 50 55 60
 Ile Pro Leu Asn Thr Lys Gly Ile Pro Gly Leu Lys Gly Val Ile His
 65 70 75 80
 Arg Arg Tyr Pro Asp Ala Lys Thr Gly Ile Val Tyr Arg Ile Tyr Gly
 85 90 95
 Gly Ile Gly Asp Leu Phe Met Glu Arg Lys Gln Val
 100 105

<210> 10889

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 10889

Ile Ser Arg Gly Lys Lys Tyr Arg Leu Ser Ala Ser Ala Gly Met Glu
 1 5 10 15
 Asn Asn Arg Thr Val Trp Gly Pro Arg Leu Leu Ser Ser Leu Met Ile
 20 25 30